

Volume 5 | Map books

Agriculture, forestry and soils

November 2013 ES 3.5.1.1



High Speed Two (HS2) Limited has been tasked by the Department for Transport (DfT) with managing the delivery of a new national high speed rail network. It is a non-departmental public body wholly owned by the DfT.

A report prepared for High Speed Two (HS2) Limited:

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Printed in Great Britain on paper containing at least 75% recycled fibre.

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Data dictionary and definitions

Map series	AG-01 – Agricultural Land Quality and Holdings	AG-02 – Soil Associations
Map description	These maps show the distribution of agricultural land quality within the construction boundary; Identifies the extent of farm holdings and the location of key farm buildings.	These maps show the distribution of soil types.
Community Forum Area name		
CFA 01 – Euston – Station and Approach	×	×
CFA 02 — Camden Town and HS1 Link	×	*
CFA 03 – Primrose Hill to Kilburn (Camden)	×	*
CFA o4 – Kilburn (Brent) to Old Oak Common	×	*
CFA o5 – Northolt Corridor	×	×
CFA o6 – South Ruislip to Ickenham	✓	✓
CFA 07 – Colne Valley	✓	✓
CFA o8 – The Chalfonts and Amersham	✓	✓
CFA 09 – Central Chilterns	✓	✓
CFA 10 – Dunsmore, Wendover and Halton	✓	✓
CFA 11 — Stoke Mandeville and Aylesbury	✓	✓
CFA 12 — Waddesdon and Quainton	✓	✓
CFA 13 – Calvert, Steeple Claydon, Twyford and Chetwode	✓	✓
CFA 14 — Newton Purcell to Brackley	✓	✓
CFA 15 — Greatworth to Lower Boddington	✓	✓
CFA 16 — Ladbroke and Southam	✓	✓
CFA 17 — Offchurch and Cubbington	✓	✓
CFA 18 – Stoneleigh, Kenilworth and Burton Green	✓	✓
CFA 19 – Coleshill Junction	✓	✓
CFA 20 – Curdworth to Middleton	✓	✓
CFA 21 – Drayton Bassett, Hints and Weeford	✓	✓
CFA 22 — Whittington to Handsacre	✓	✓
CFA 23 – Balsall Common and Hampton-in-Arden	✓	✓
CFA 24 — Birmingham Interchange and Chelmsley Wood	✓	✓
CFA 25 — Castle Bromwich and Bromford	✓	✓
CFA 26 — Washwood Heath to Curzon Street	×	$\checkmark$

### Mapping explanatory notes

### **Copyright statements**

Copyright statements are presented in the data dictionary and definitions section at the front of the map book, due to limited space to include this on the individual maps themselves.

### **Ordnance Survey data**

All maps produced as part of the London-West Midlands Environmental Statement (ES) contain Ordnance Survey (OS) data. HS2 Ltd uses the most up-to-date mapping available, where possible, supplied by the OS. As such, we cannot be held responsible for any inaccuracies within this data.

As part of our licence conditions, all digital maps carry a watermark.

### Chainage

Most of the maps presented as part of the ES have a chainage value shown next to the alignment. Chainage is presented on the maps in black font, in the form of XX+YYY, for example: 77+000.

Chainage (known as reference chainage) is referenced from Euston station, which is 0+000, and the value presented is in metres. For example, 77+000 refers to the point 77,000m, or 77km, from Euston station. Chainage values increase in intervals dependant on the map scale. For maps at 1:50,000, scale chainage is shown at 1:25,000, scale chainage is shown at 1:25,000, scale chainage is shown at 1km intervals. For maps at 1:10,000, 1:5,000 and 1:2,500 scales, chainage is shown at 1km intervals.

Chainage has been included on the maps as a useful tool for comparing map sets showing the different environmental themes or engineering plans, due to map sets having different scales and therefore showing differing amounts of alignment on the map.

### Map orientation

The majority of the maps presented in these map books are presented with the railway alignment running horizontally across the page. The direction of travel to London would be following the alignment to the right hand side of the page, and the West Midlands to the left.

The exceptions to this are map series LV-02, LV-03, LV-04, LV-07 and LV-08, which present the alignment running from the bottom to the top of the page. This is to allow more of the modelled outputs to be shown at the appropriate map scale. In this instance, the direction of travel to London would be to the bottom of the page, and the West Midlands to the top.

### Map books

There are a total of 76 map books in the ES, spread across Volumes 2, 4 and 5. A list of the titles is provided in the table below for reference.

Name	Name	
Volume 2 Map Books Community Forum Area: 01 Euston — Station and Approach	Volume 5 Map Books: Ecology – Community Forum Area: 05 Northolt Corridor	
Volume 2 Map Book s Community Forum Area: 02 Camden Town and HS1 Link	Volume 5 Map Books: Ecology – Community Forum Area: o6 South Ruislip to Ickenham	
Volume 2 Map Books Community Forum Area: 03 Primrose Hill to Kilburn (Camden)	Volume 5 Map Books: Ecology – Community Forum Area: 07 Colne Valley	
Volume 2 Map Books Community Forum Area: 04 Kilburn (Brent) to Old Oak Common	Volume 5 Map Books: Ecology – Community Forum Area: o8 The Chalfonts and Amersham	
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Volume 2 Map Books Community Forum Area: o6 South Ruislip to Ickenham	Volume 5 Map Books: Ecology – Community Forum Area: 10 Dunsmore, Wendover and Halton	
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Volume 5 Map Books: Air Quality	Volume 5 Map Books: Sound, Noise and Vibration – Euston and London Metropolitan	
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Data dictionary and definitions

### **Data dictionary and definitions**

Legend features	Definition	Source	Copyright
Agricultural and forestry holdings assessed	Holdings assessed derived from the Farm Impact Surveys undertaken by the environmental consultants for HS2 Ltd, augmented where access was not available by published information from Defra.	High Speed Two (HS2) Ltd	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
Agricultural land classification:  Grade 1 - excellent  Grade 2 - very good  Grade 3a - good  Grade 3b - moderate  Grade 4 - poor  Grade 5 - very poor  Other land	The Agricultural Land Classification (ALC) provides a method for assessing the quality of farmland. The ALC system classifies land into five grades, with Grade 3 subdivided into Subgrades 3a and 3b.  The best and most versatile land is defined as Grades 1, 2 and 3a. This is the land which is most flexible, productive and efficient in response to inputs.  Predictive ALC undertaken by the environmental consultants for HS2 Ltd, based on an interpretation of existing published data, existing detailed ALC surveys obtained from Natural England, and soil and ALC surveys undertaken by the environmental consultants for HS2 Ltd.	Natural England High Speed Two (HS2) Ltd	© Natural England Copyright 2013 Contains Ordnance Survey data © Crown Copyright and database right 2013. All rights reserved. Ordnance Survey Licence number 100022021. http://www.naturalengland.org.uk/Images/open- government-licence-NE-OS_tcm6-30743.pdf
Airport	Ordnance Survey airports from the Strategi dataset.	Ordnance Survey	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
Community Forum boundary	The Environmental Statement has been split into 26 sections called Community Forum Areas.	High Speed Two (HS2) Ltd	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
County boundary	County boundaries from Ordnance Survey boundary mapping.	Ordnance Survey	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
Depot, station, headhouse or portal building	Extends to cover operational footprint of each depot and station and the footprint of each tunnel vent shaft and headhouse at surface level. Excludes any ancillary buildings associated with these structures.	High Speed Two (HS2) Ltd	
District/Borough boundary	Ordnance Survey local authority boundary mapping.	Ordnance Survey	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
Existing rail line	Existing railway lines derived from Ordnance Survey Vector map data.	Ordnance Survey	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
Existing railway station	Existing railway stations derived from Ordnance Survey Vector map data.	Ordnance Survey	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
Known extent of agriculture and forestry holdings	Holdings beyond study area extent derived from the Farm Impact Surveys undertaken by the environmental consultants for HS2 Ltd.	High Speed Two (HS2) Ltd	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.

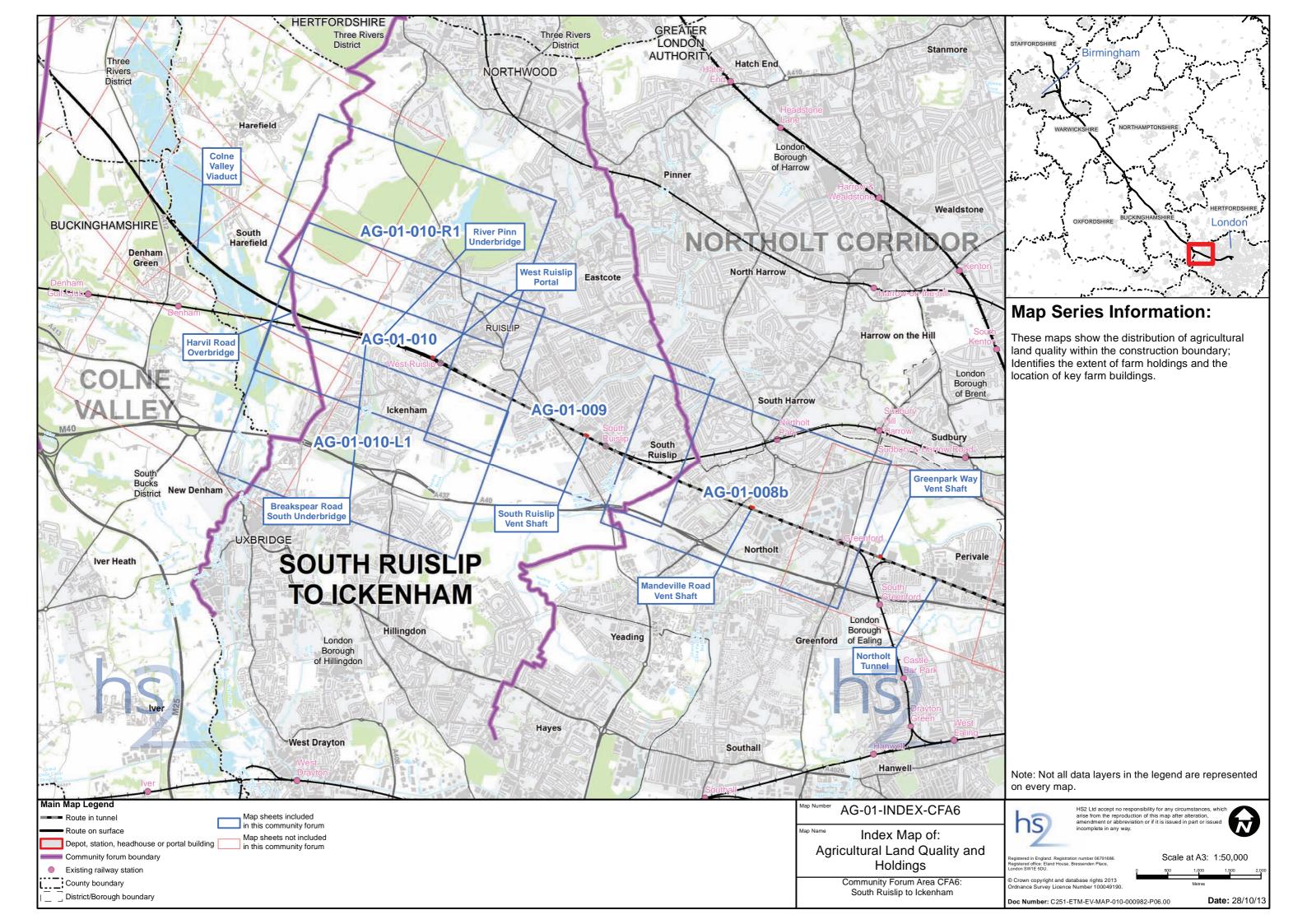
Legend features	Definition	Source	Copyright
Land potentially required during construction	Boundary defining the maximum possible extent of construction works required to build HS2 as far as the current level of design allows. This only covers surface works and includes all tunnel portals, vent shafts and headhouses, but does not apply to wholly tunnelled sections or to air rights. It also encompasses associated highway, access, drainage and utility works.	High Speed Two (HS2) Ltd	
Main operational agricultural and forestry buildings	Main operational buildings derived from the Farm Impact Surveys undertaken by the environmental consultants for HS2 Ltd.	High Speed Two (HS2) Ltd	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
National Soil Map soil association codes and names	NATMAP is a 1:250,000 scale map of England and Wales, showing the locations of the 297 distinct soil associations wherever they occur.  From Cranfield University (2001), The National Soil Map of England and Wales, National Soil Resources Institute.	Cranfield University	Soil data © Cranfield University (NSRI) and for the Controller of HMSO (2001).
Route in tunnel Route on surface	Represents the proposed route of HS2, split into route on surface and tunnelled sections.	High Speed Two (HS2) Ltd	
Water body	Based on Ordnance Survey Vector Map District data.	Ordnance Survey	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
Watercourse	The Detailed River Network (DRN) is the only large-scale, accurate and fully attributed digital river centreline covering England and Wales.	Environment Agency	Contains Environment Agency information © Environment Agency and database right.

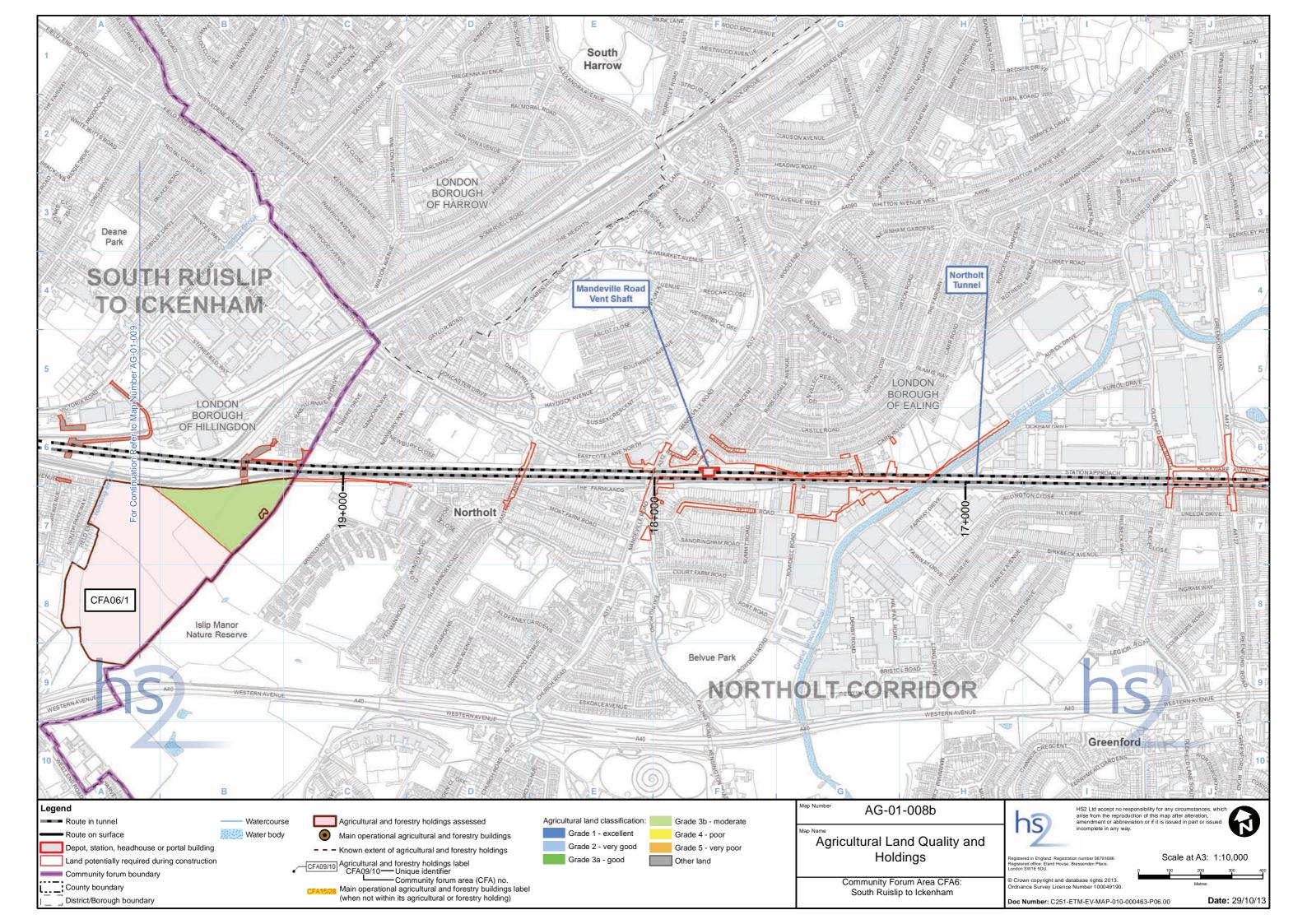
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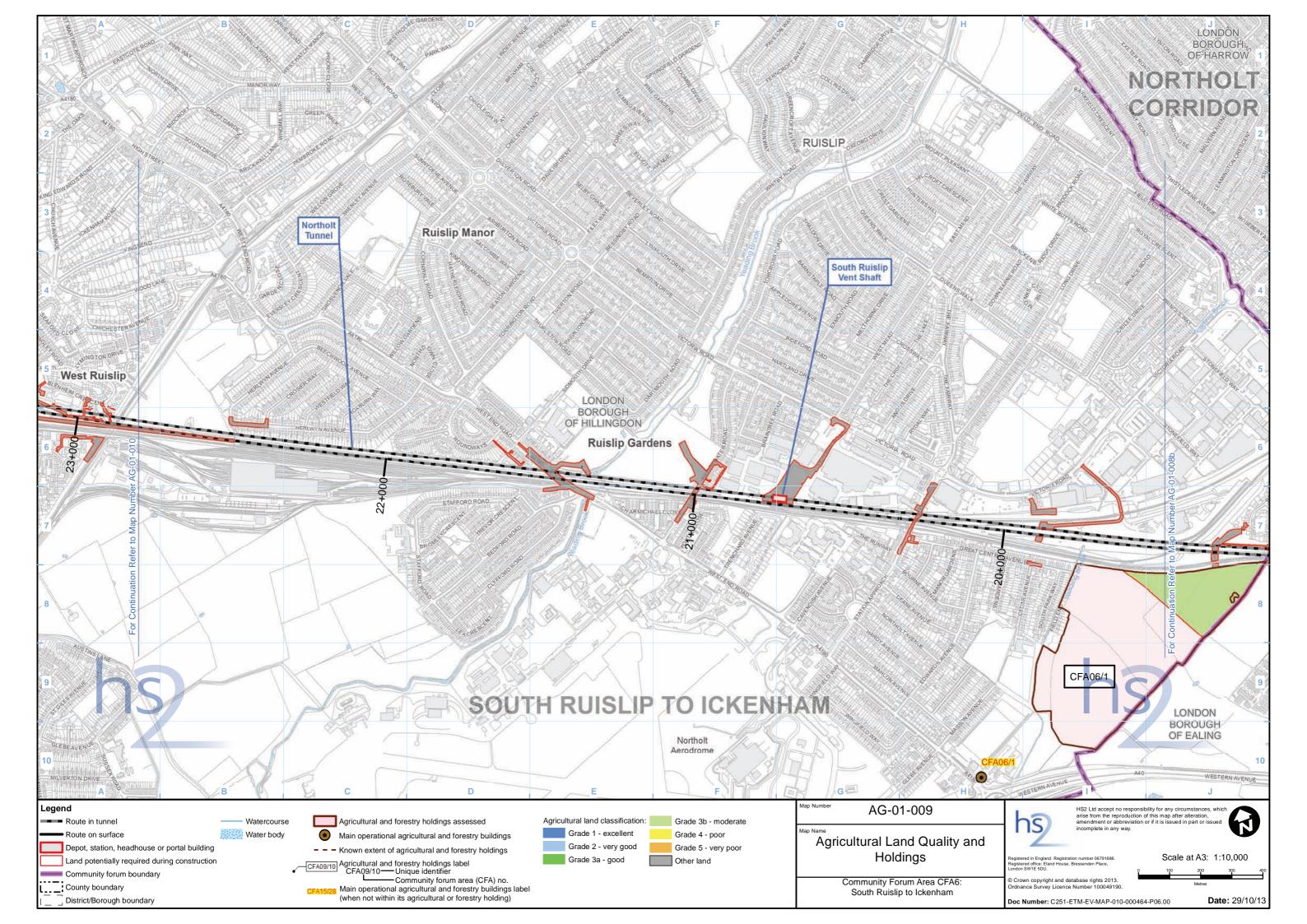


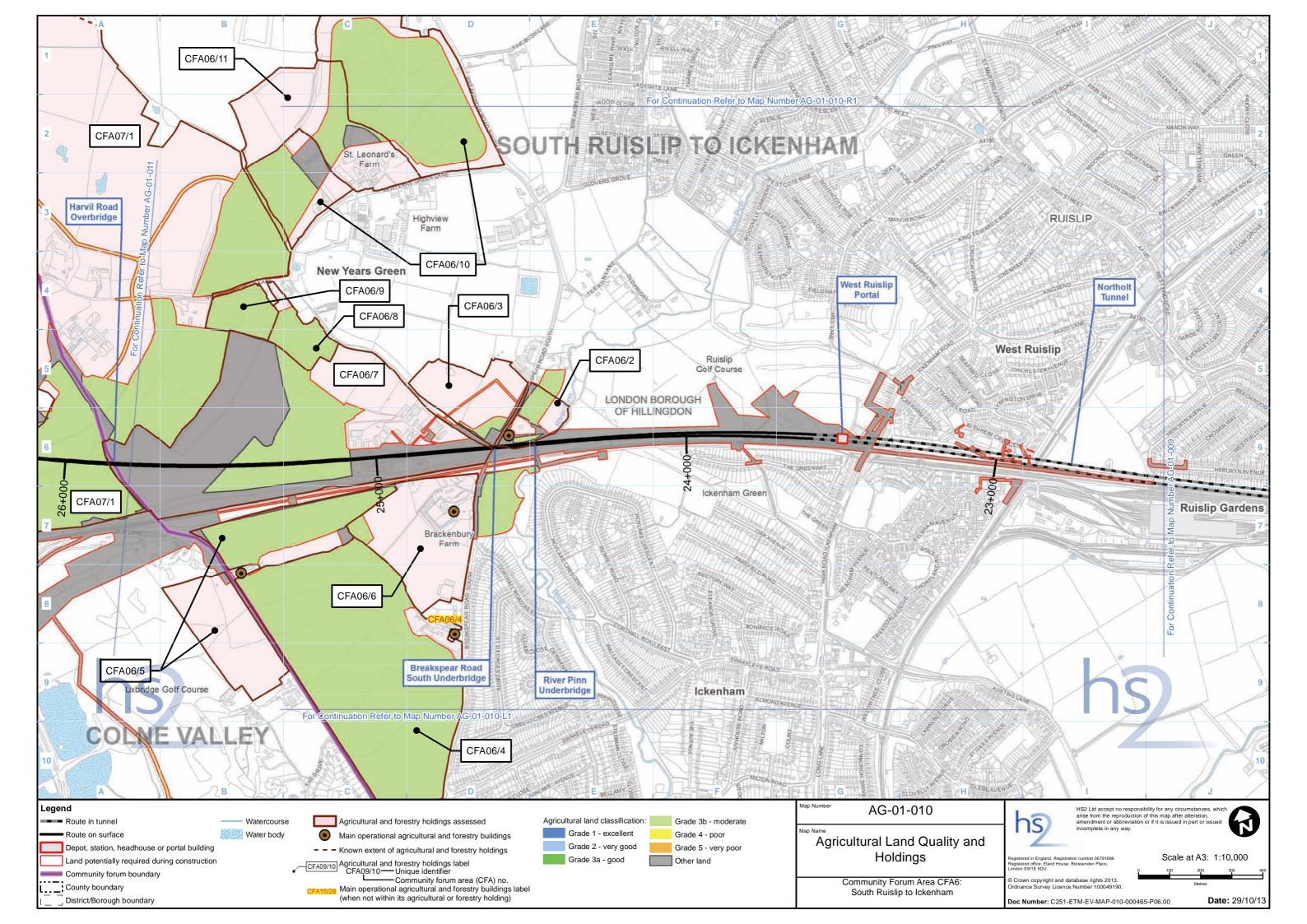
CFA6 | South Ruislip to Ickenham

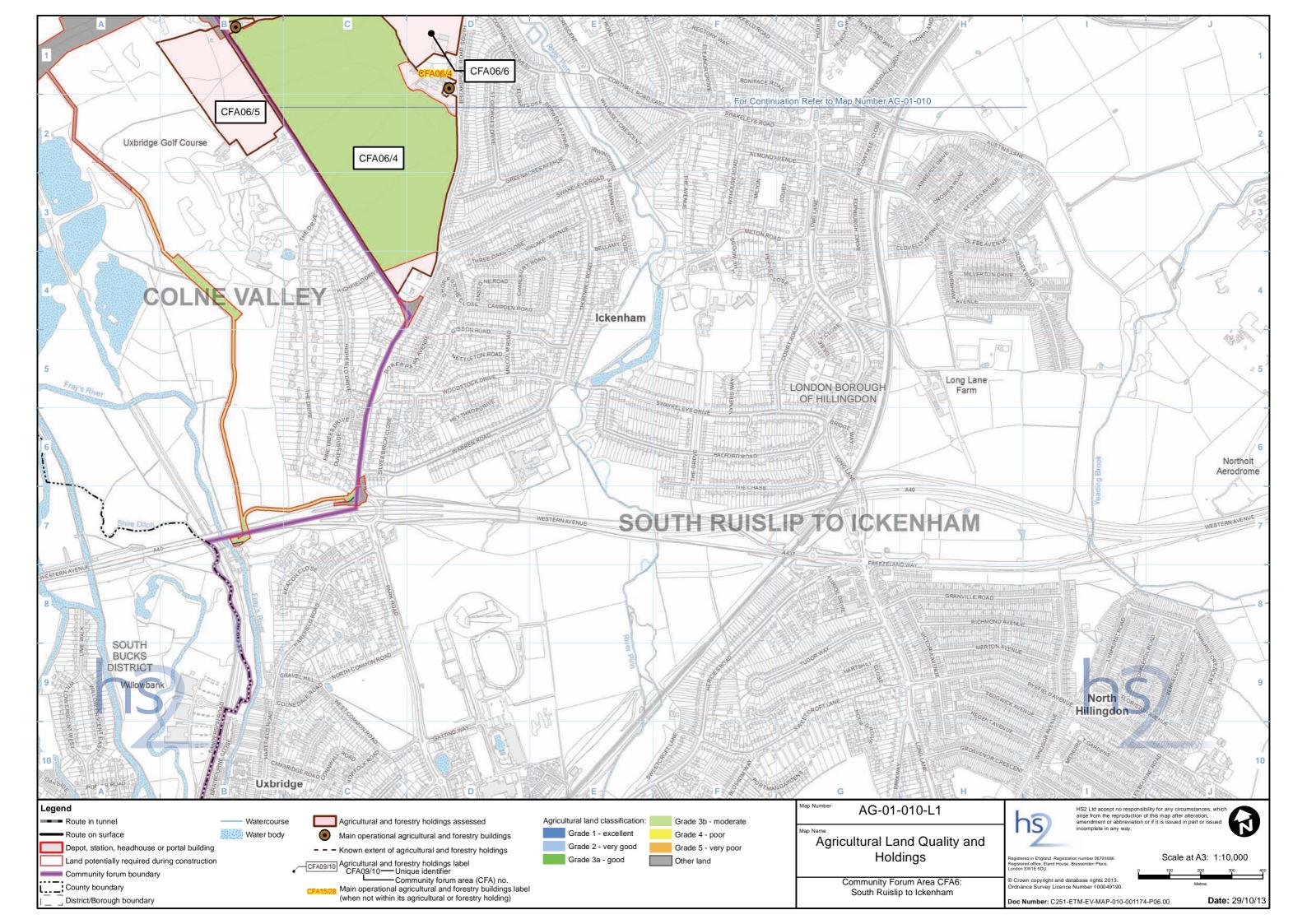
AG-01 - Agricultural Land Quality and Holdings

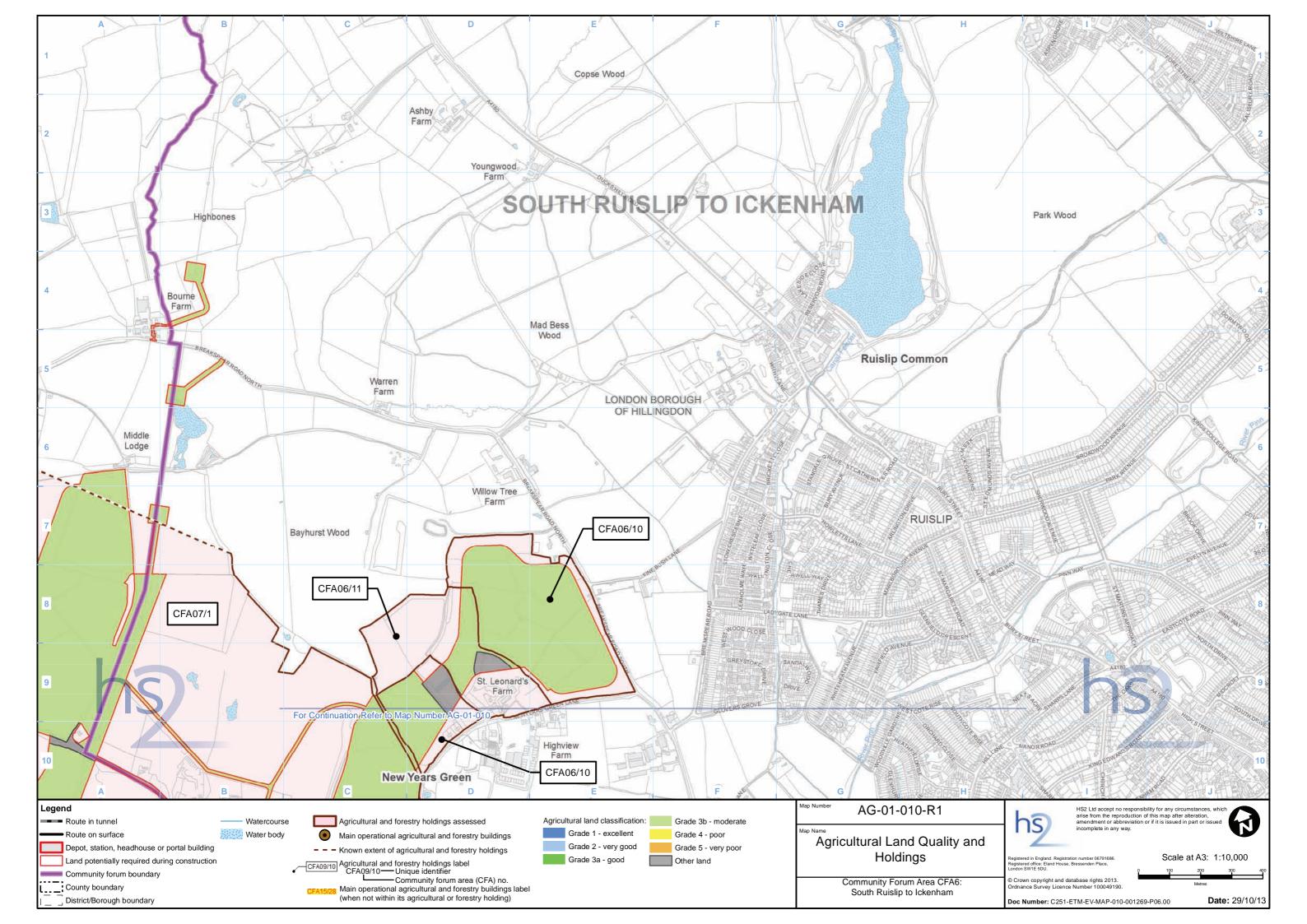


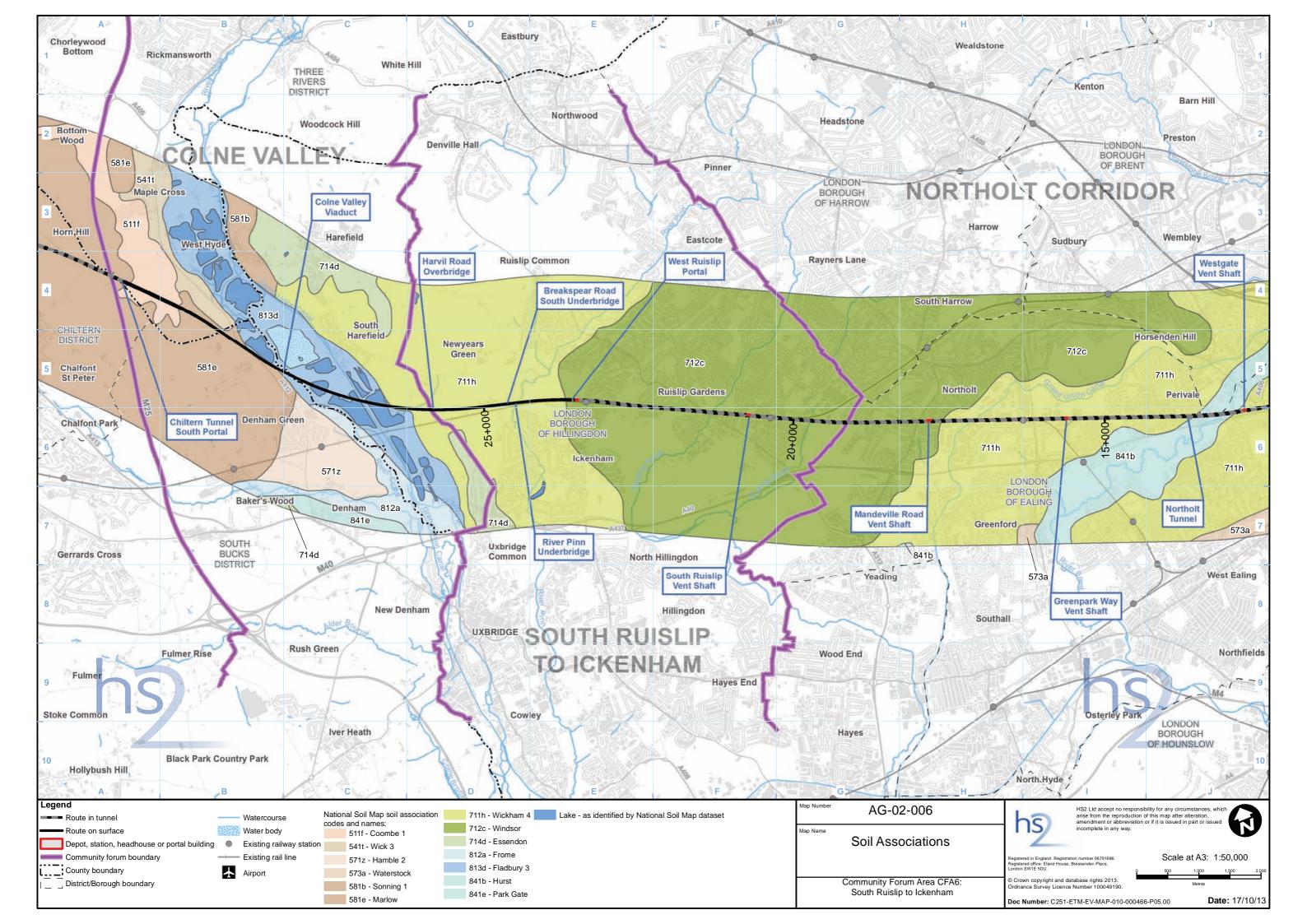








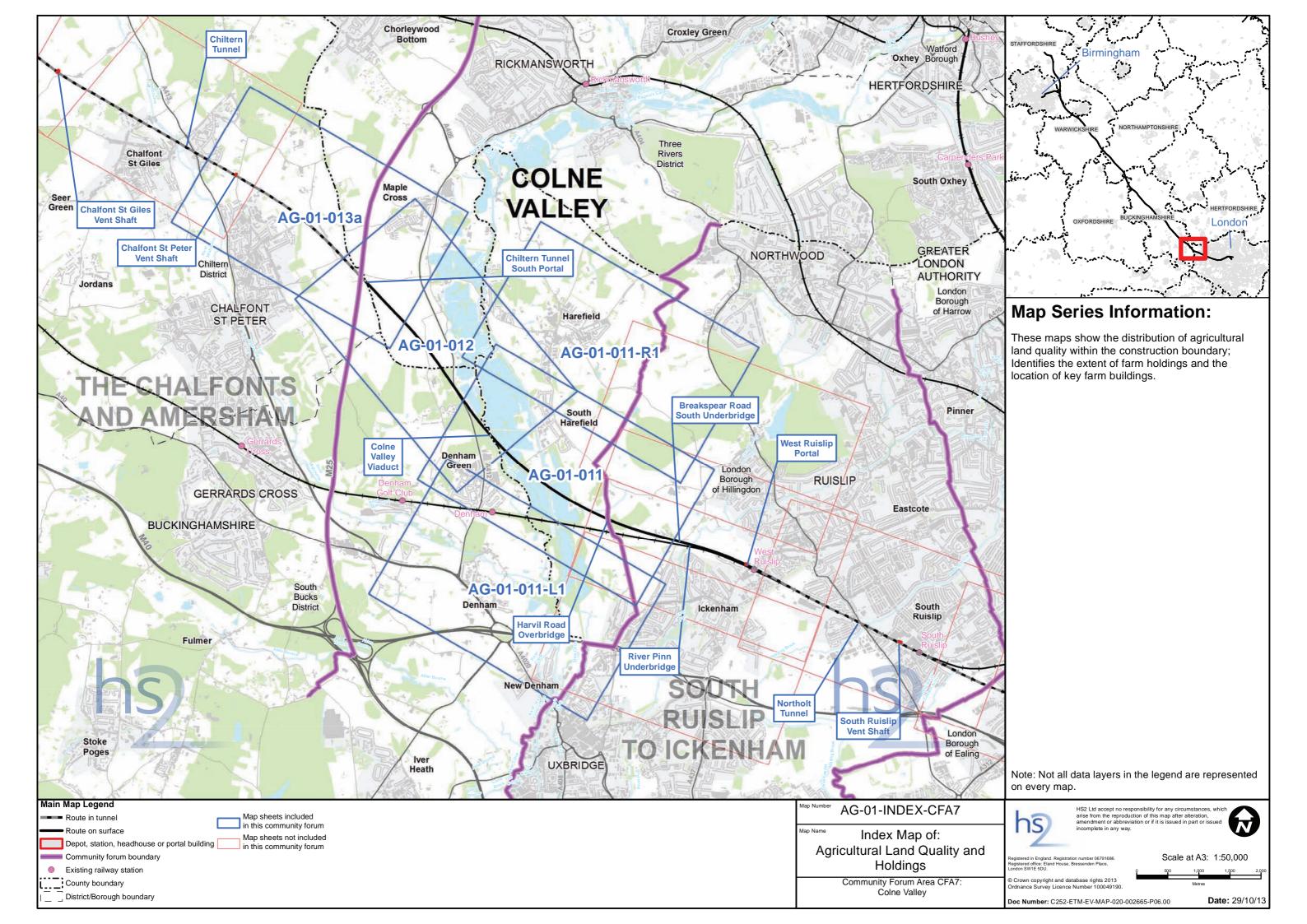


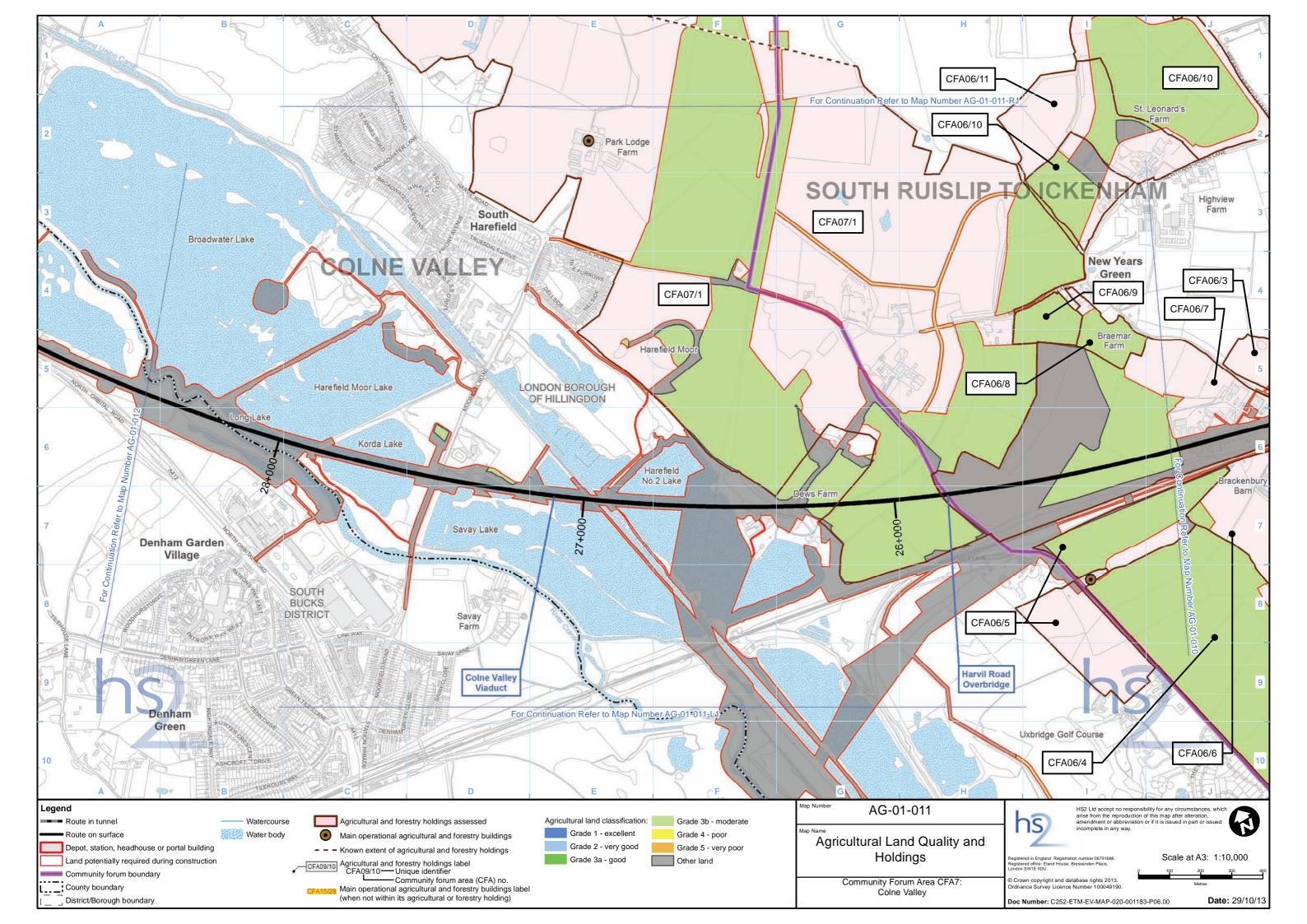


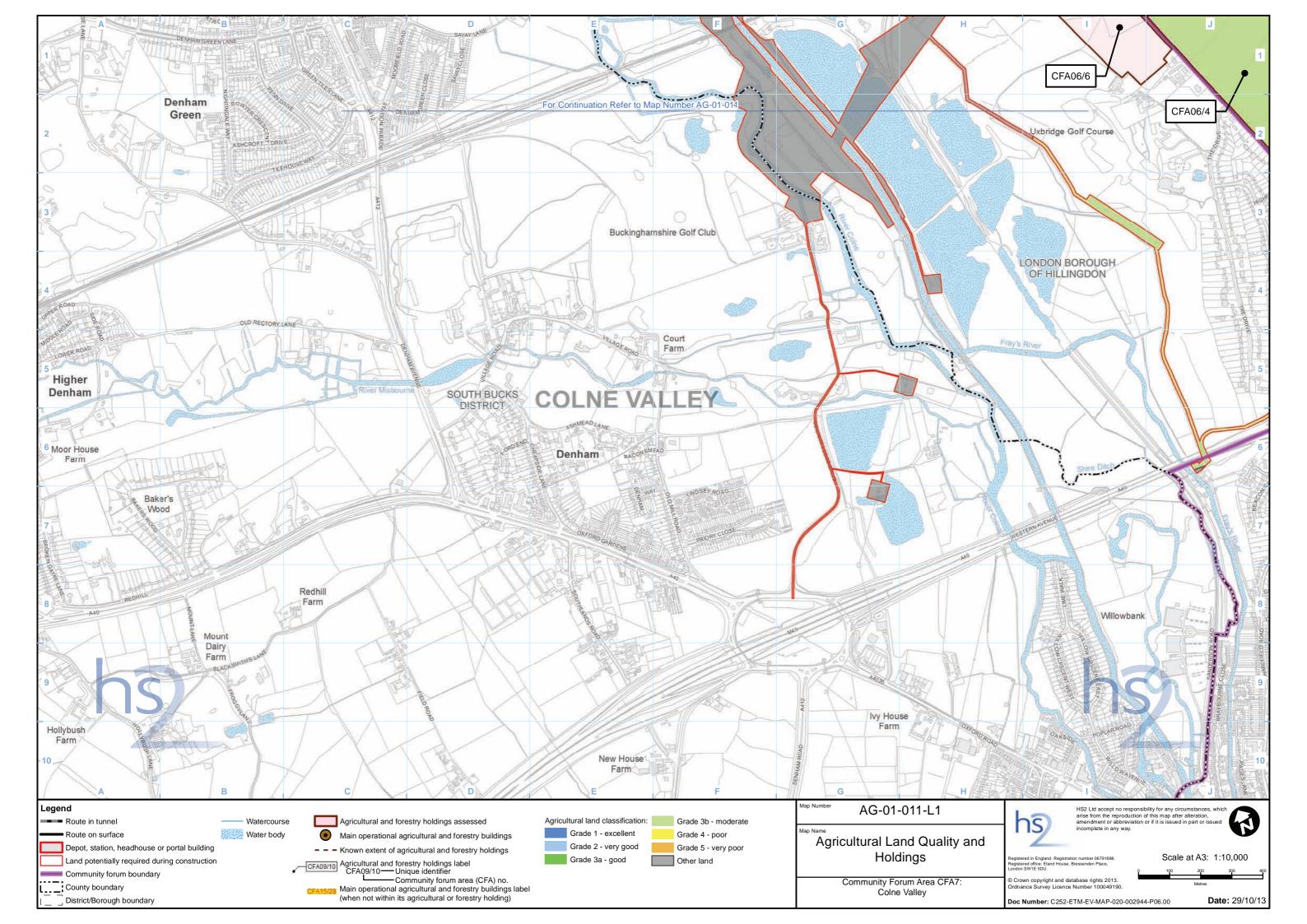


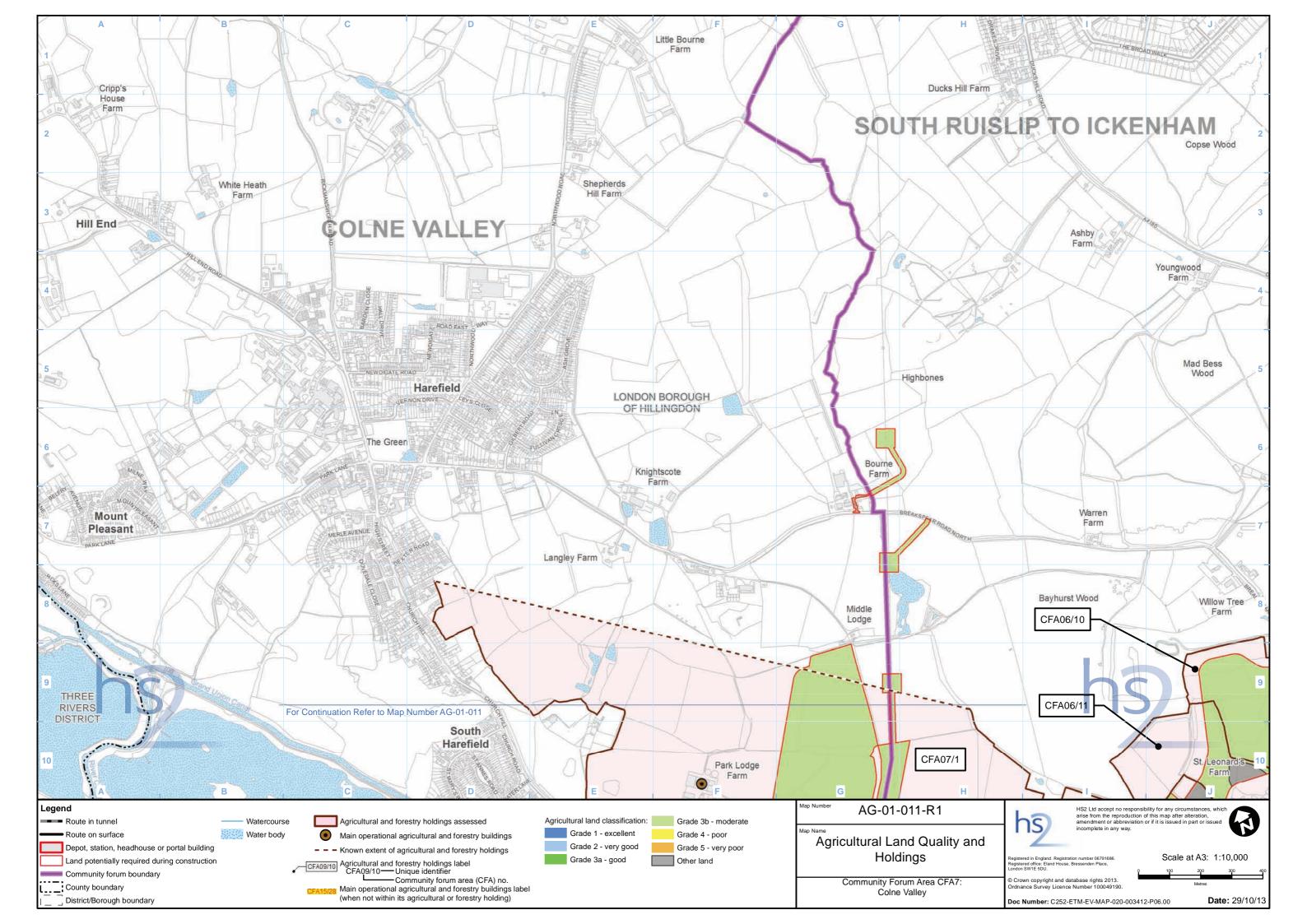
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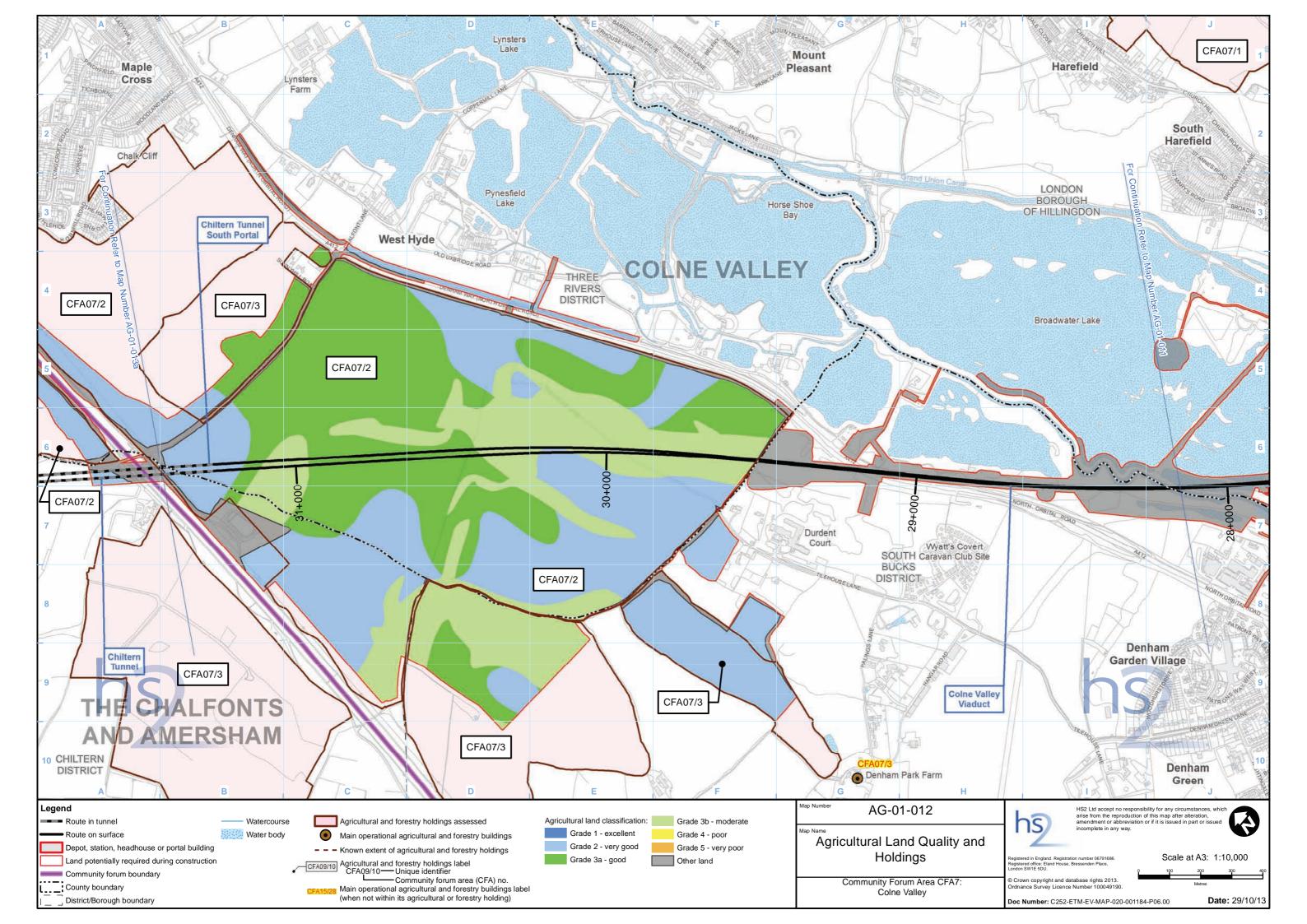
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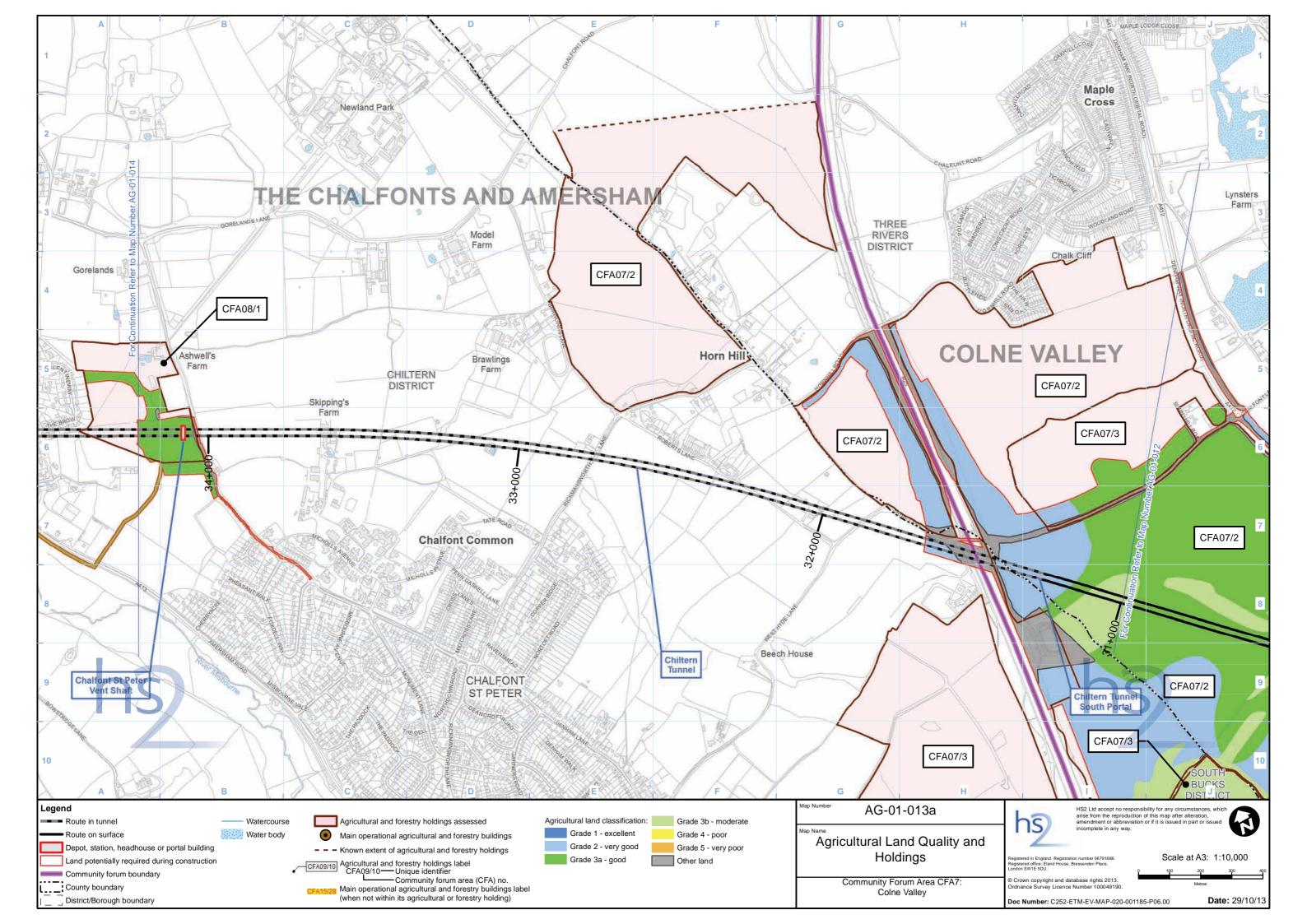


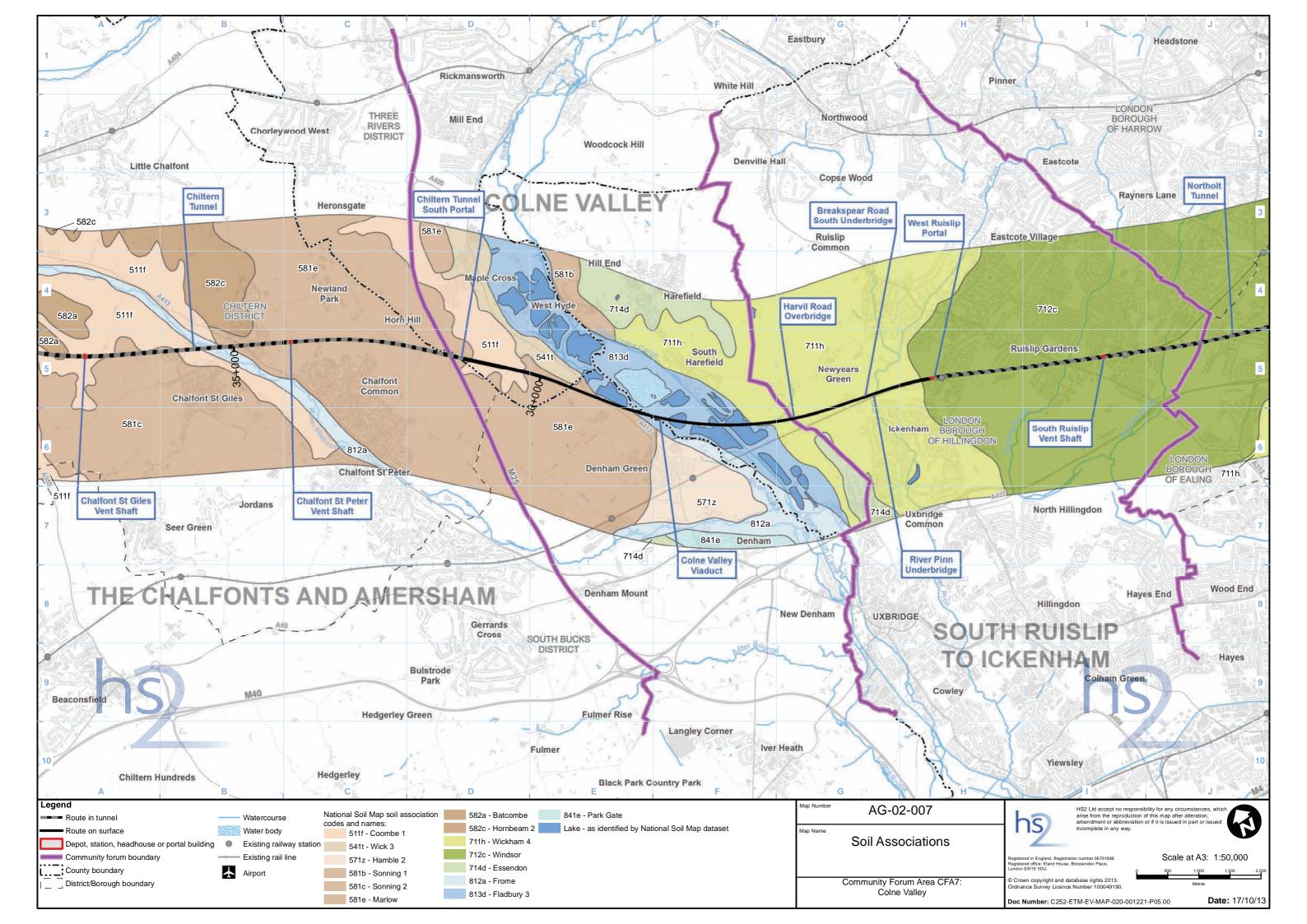








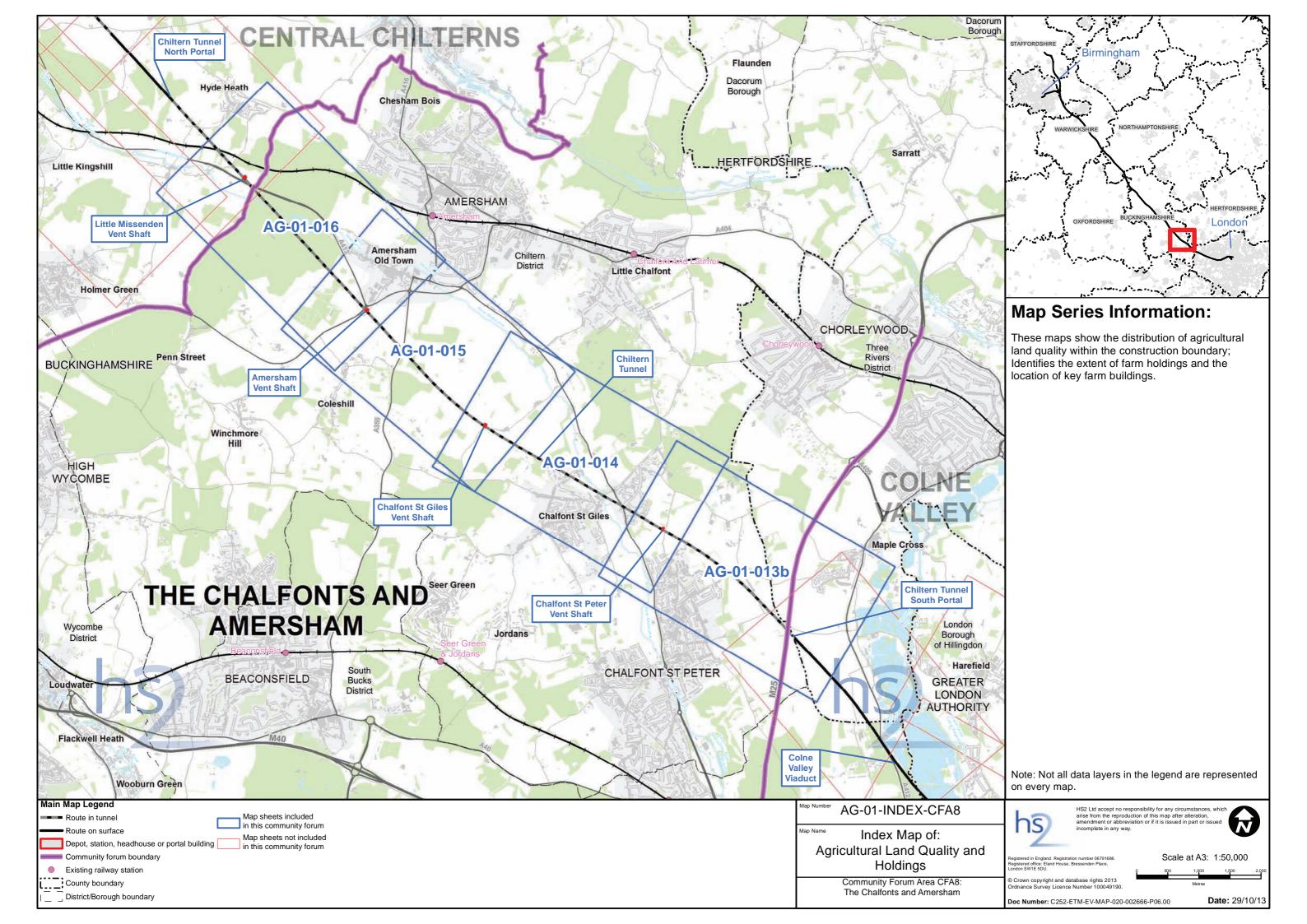


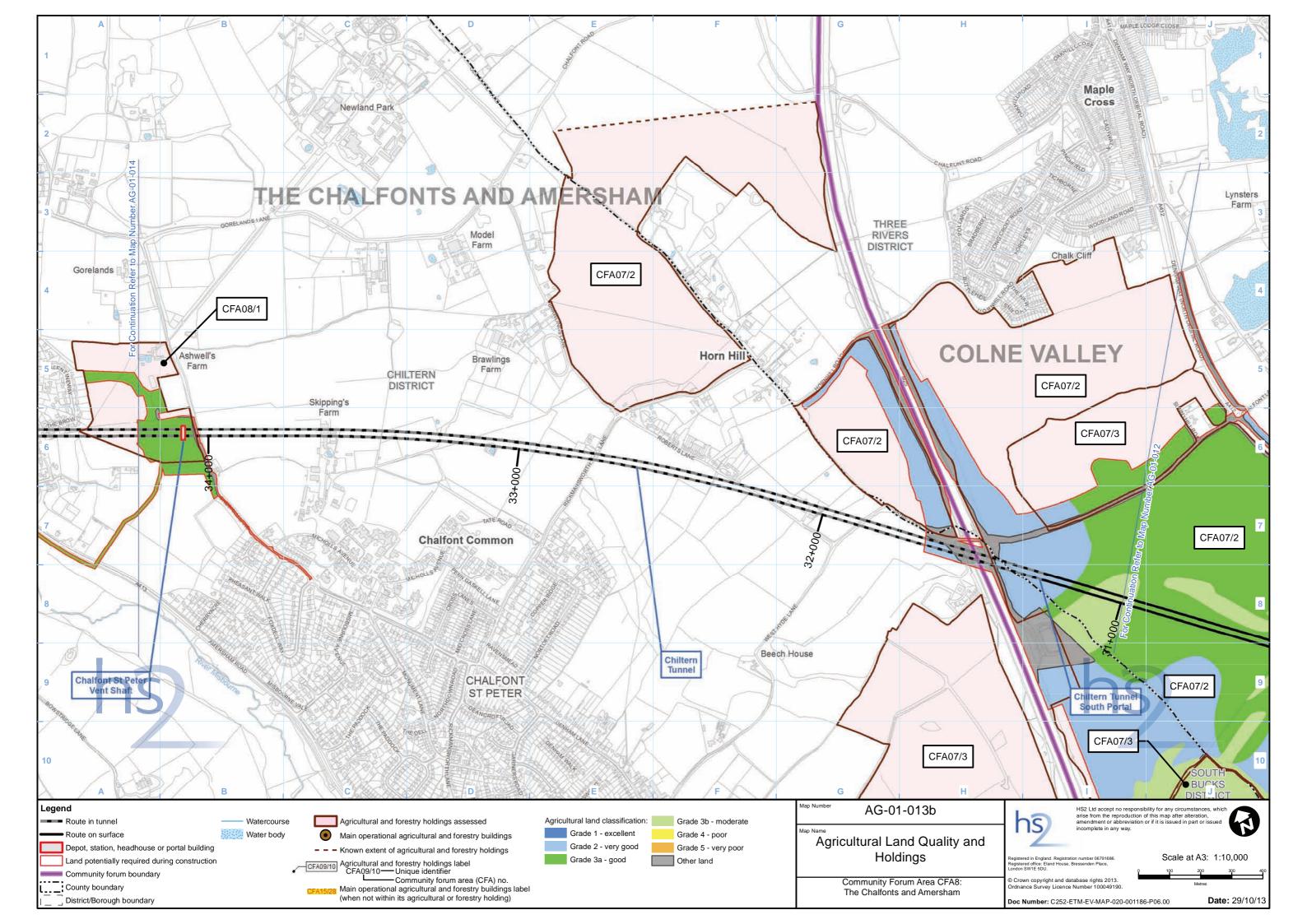


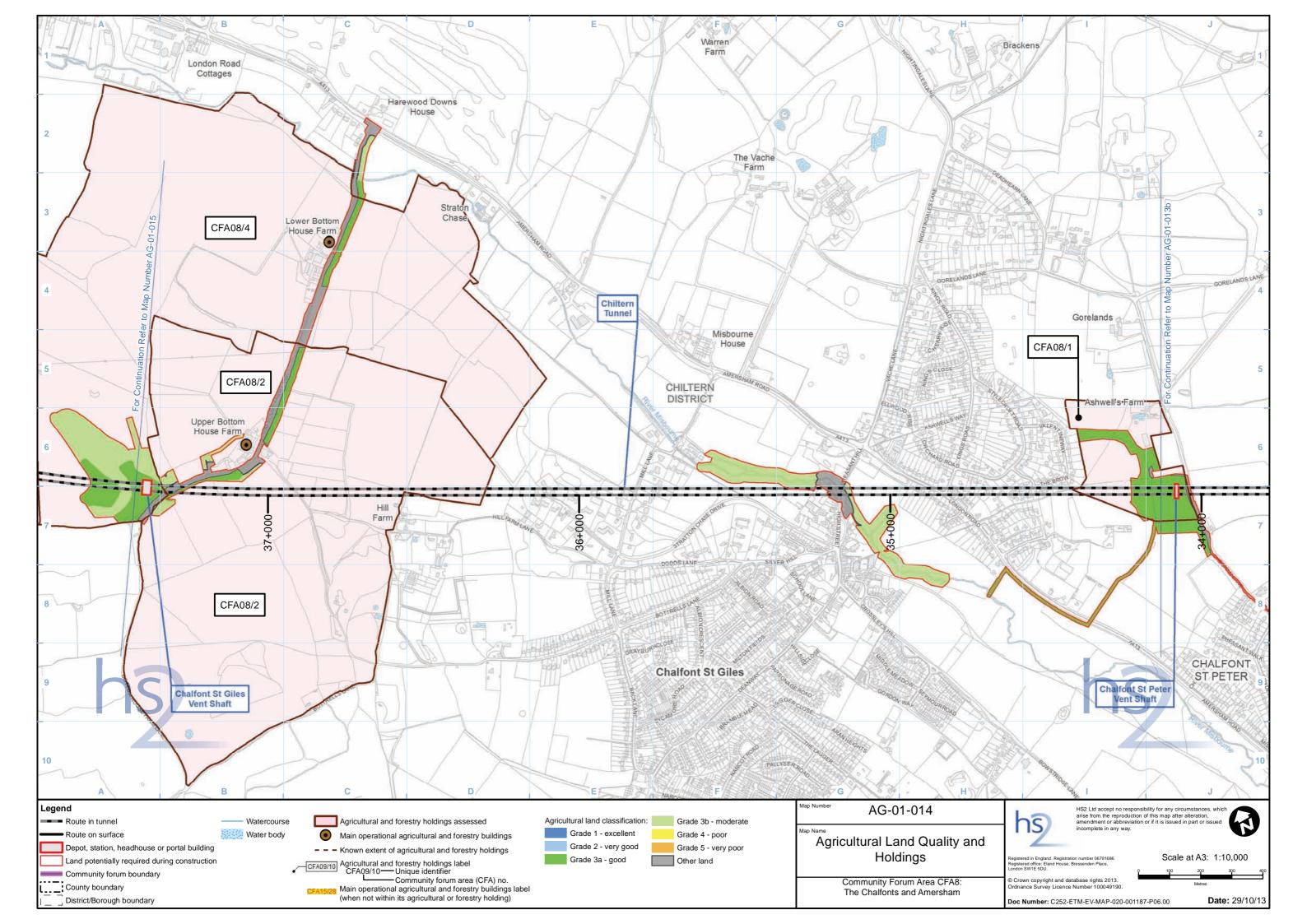


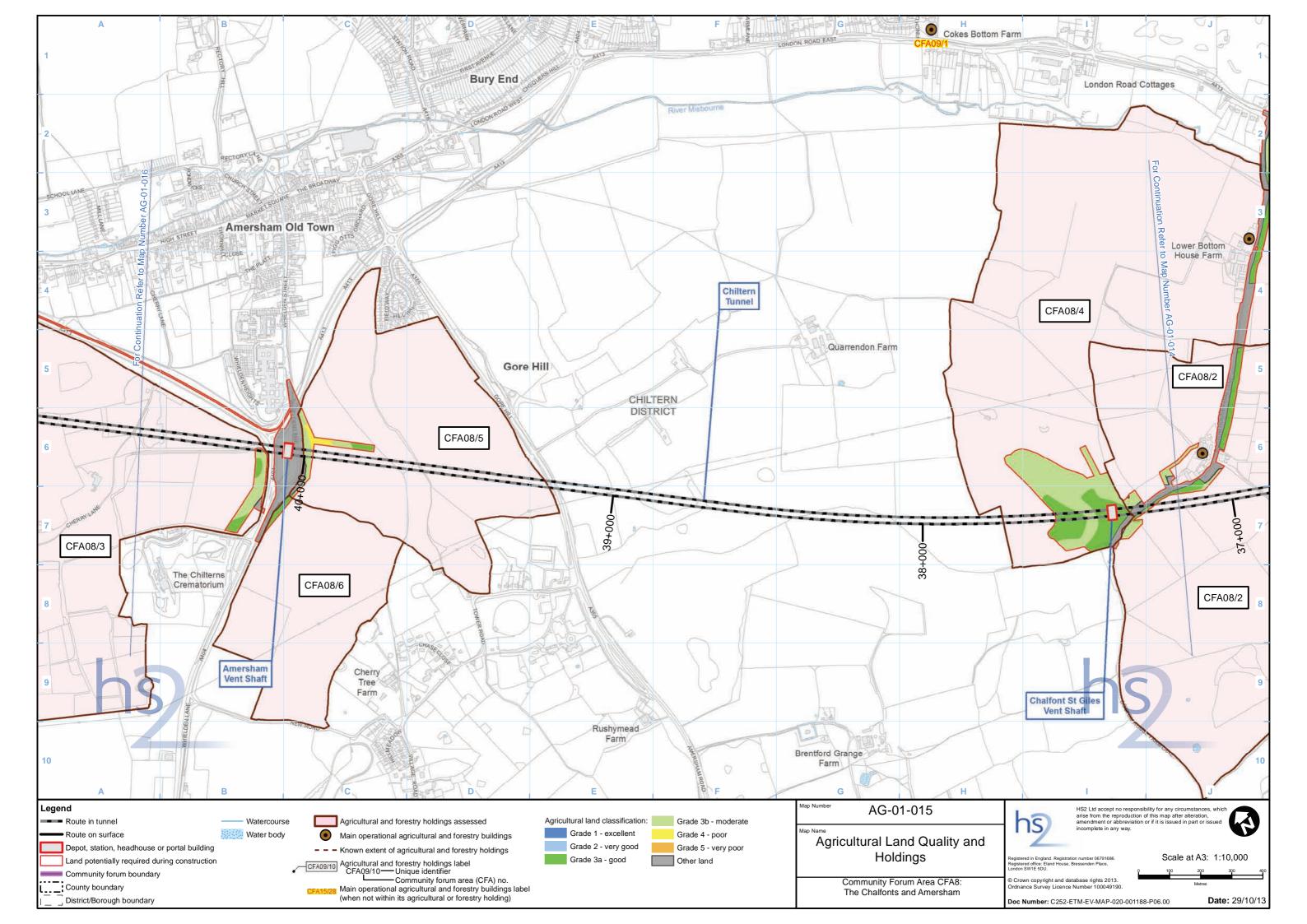
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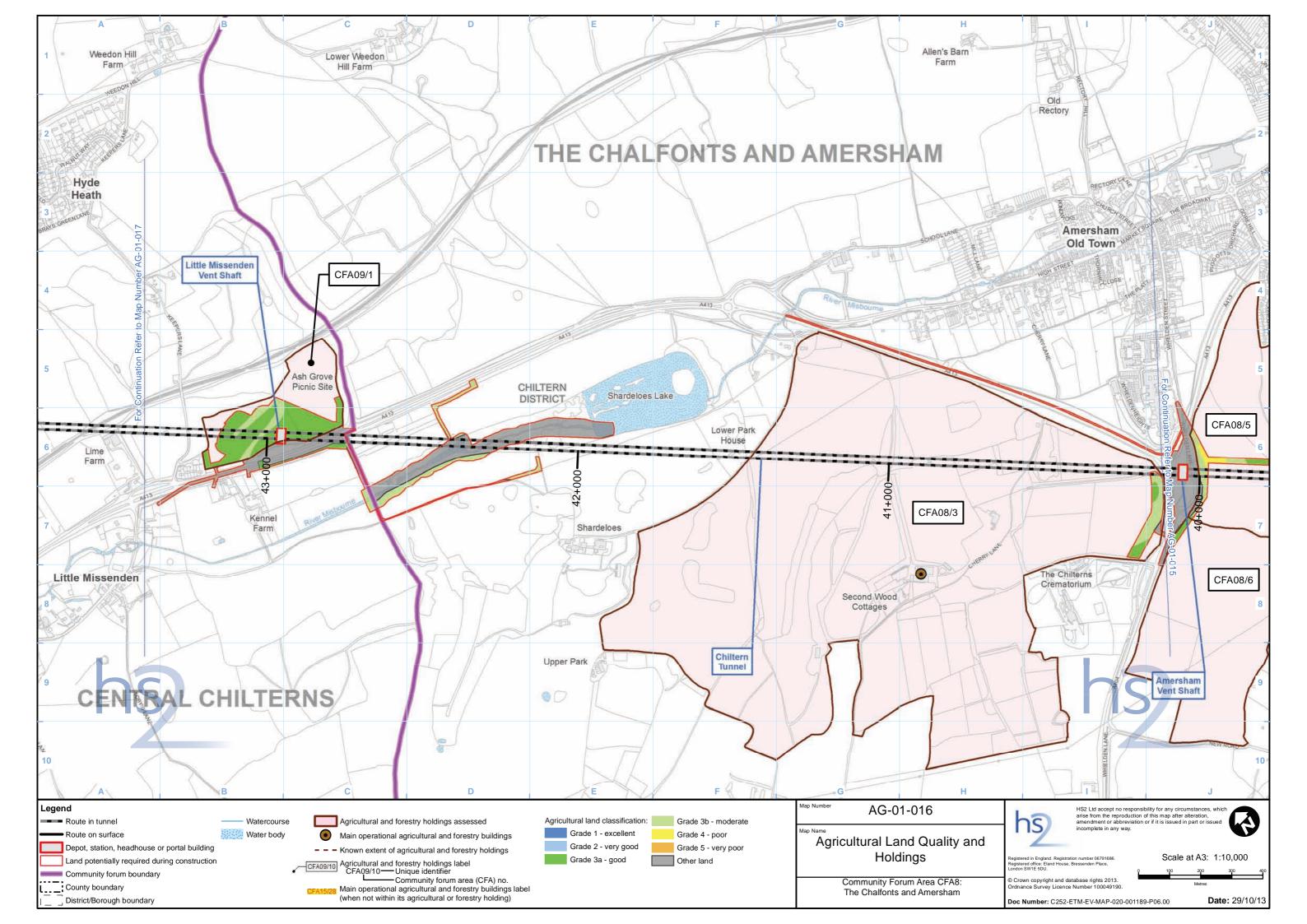
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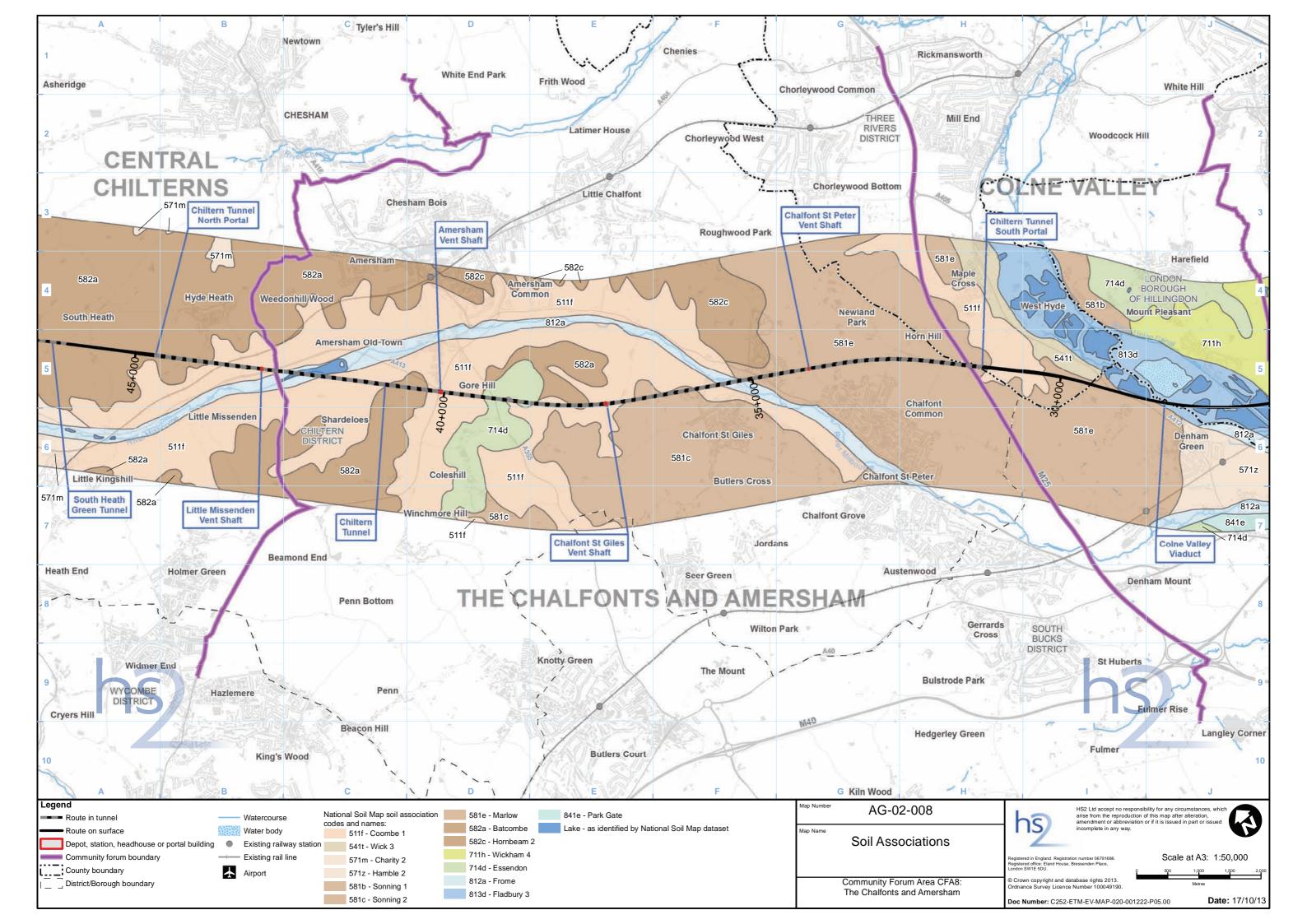










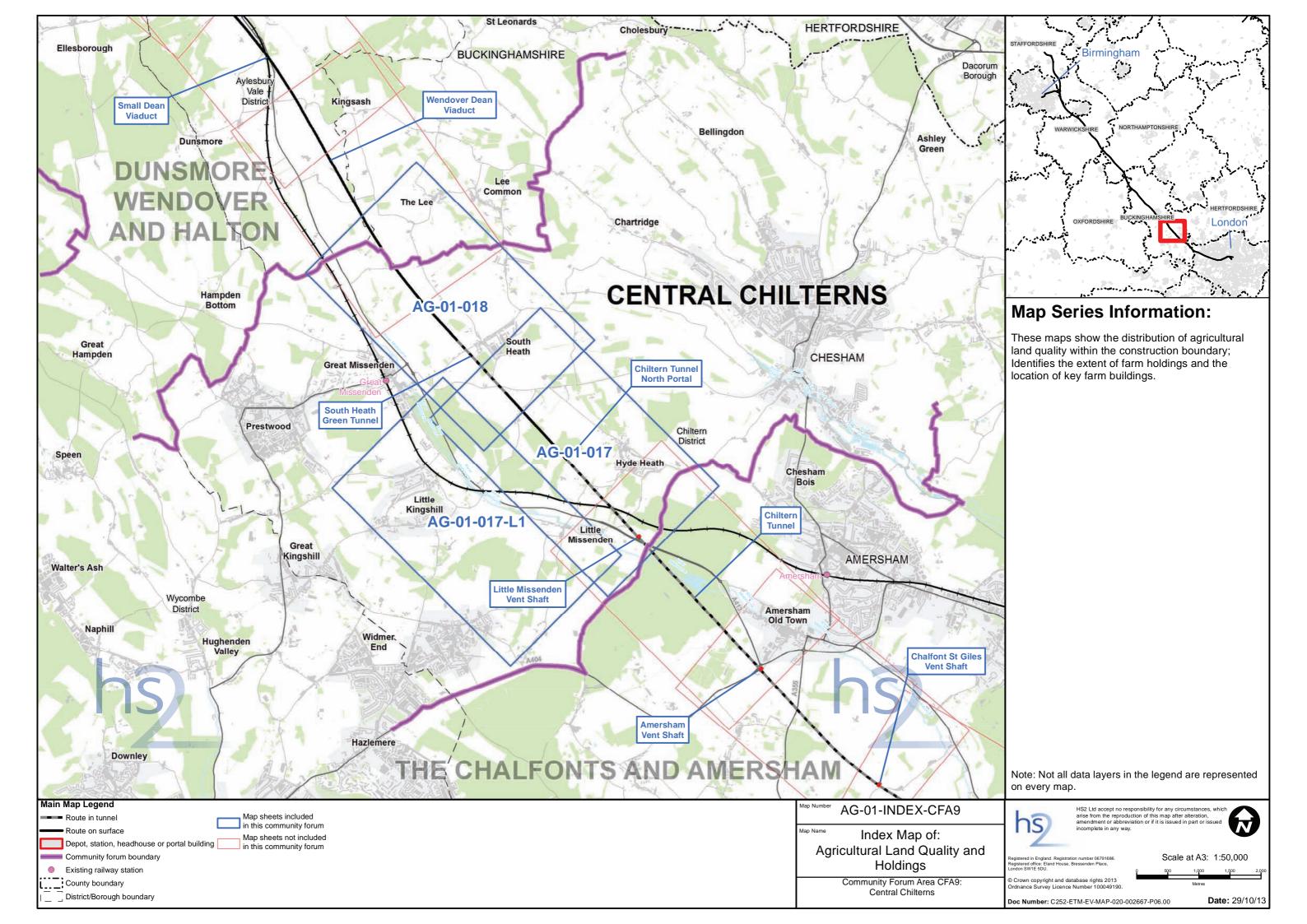


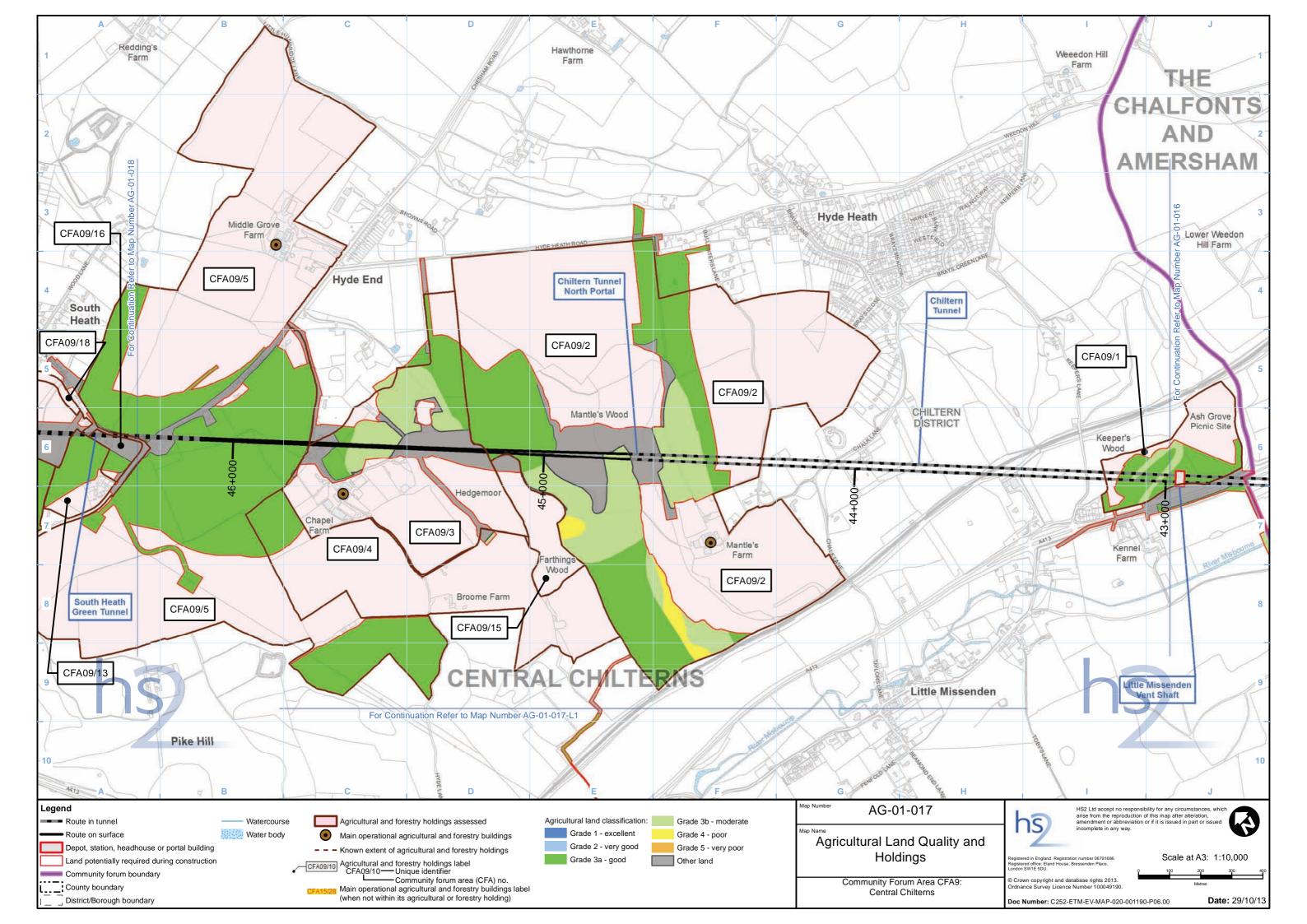
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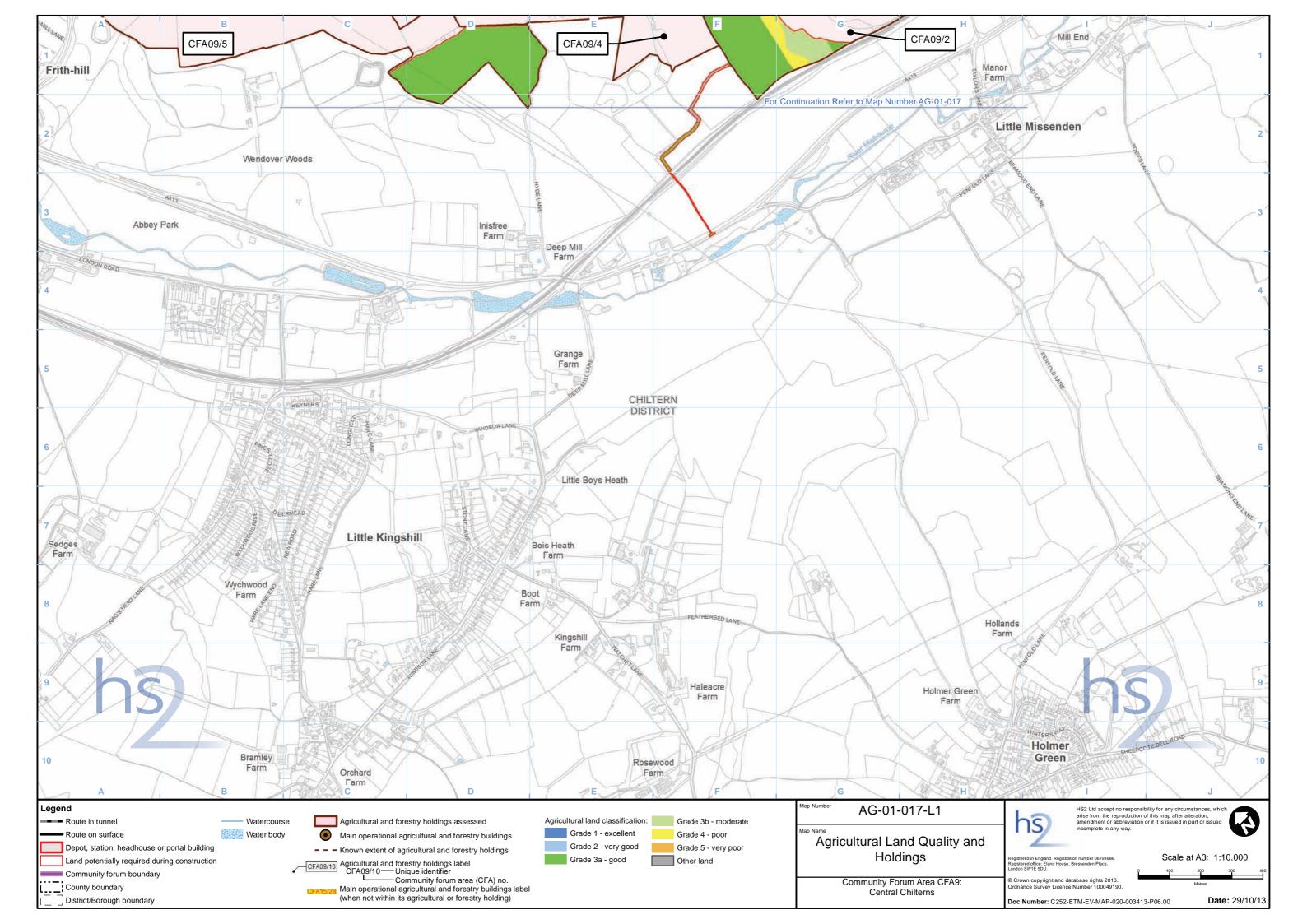


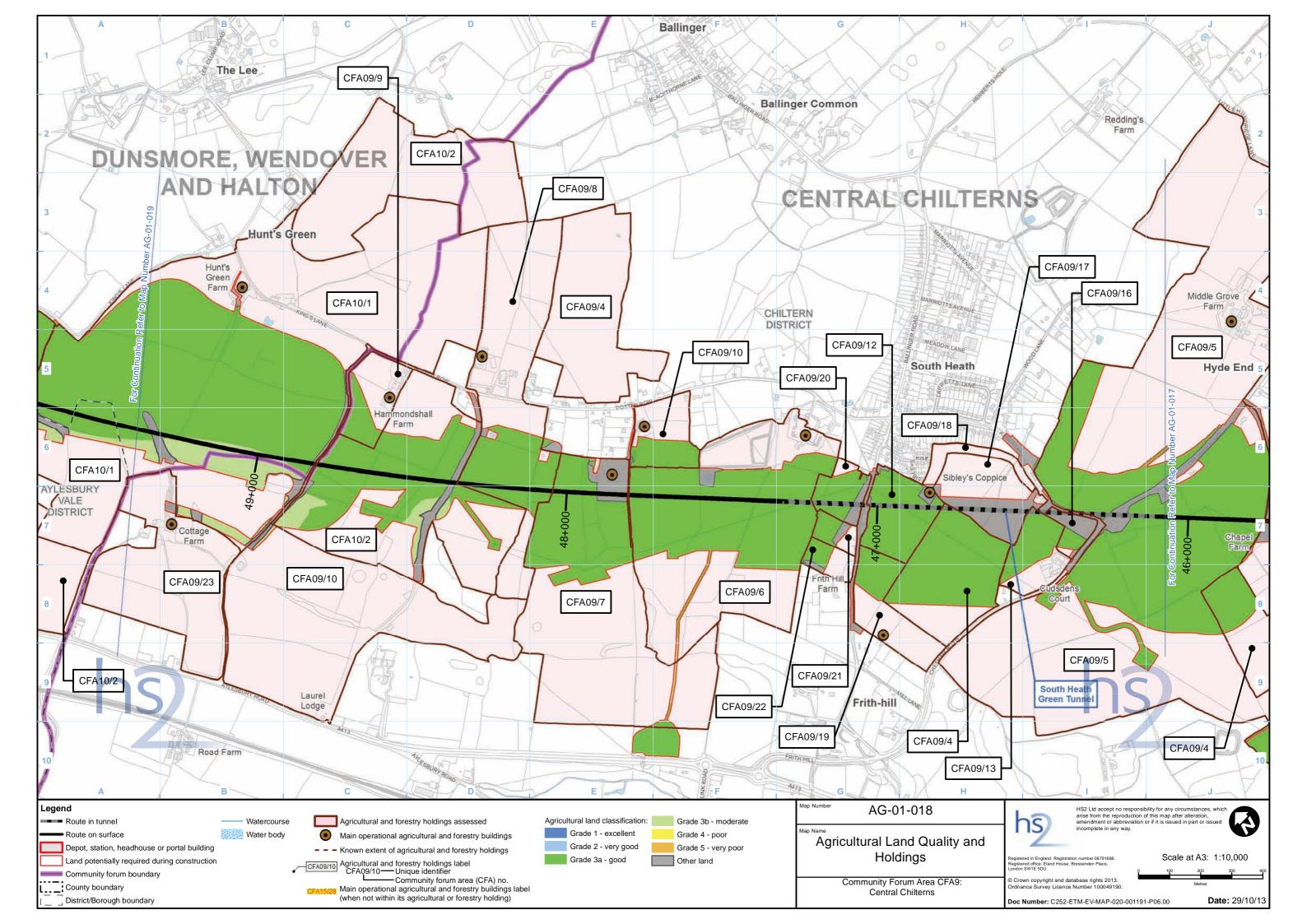
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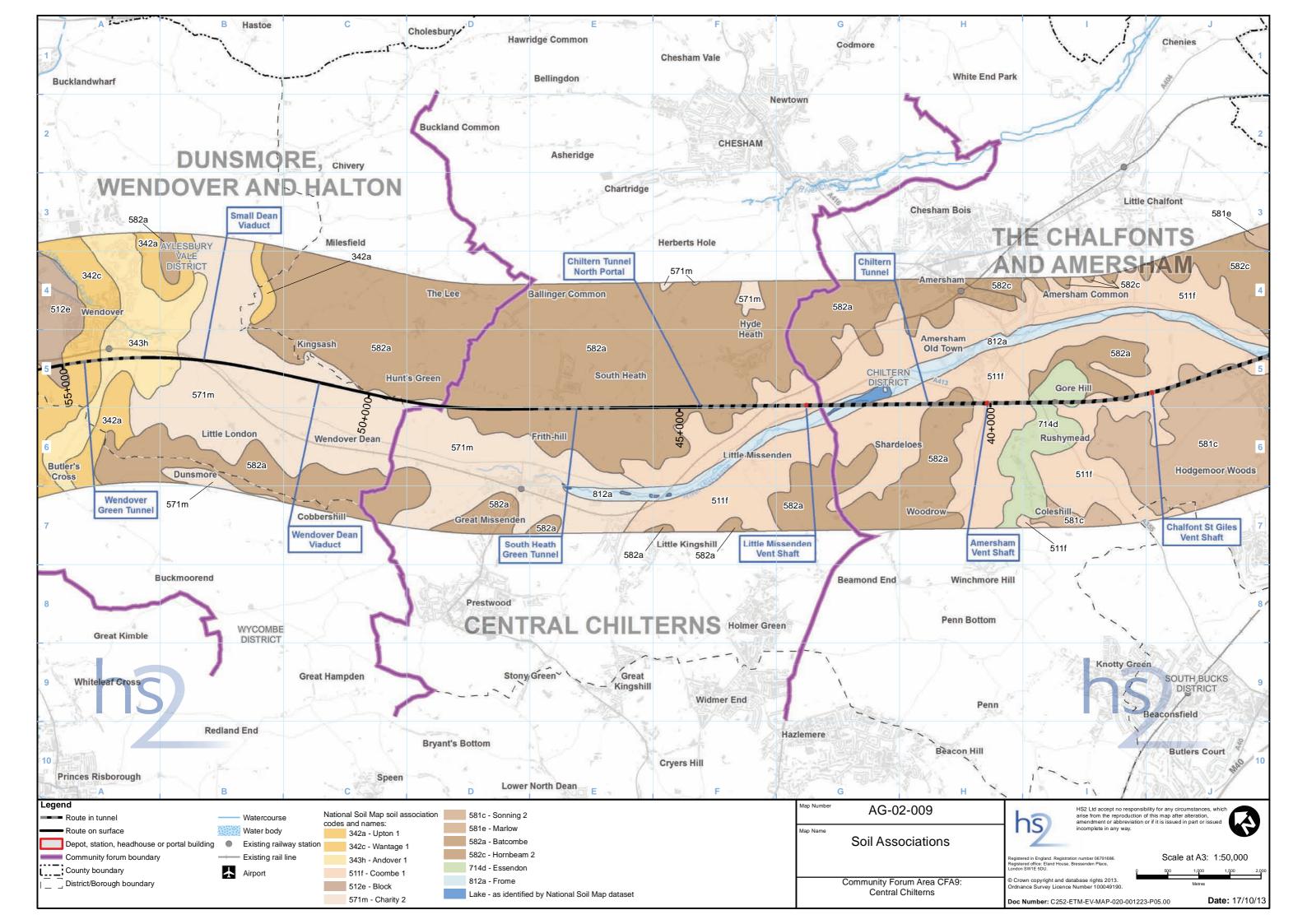
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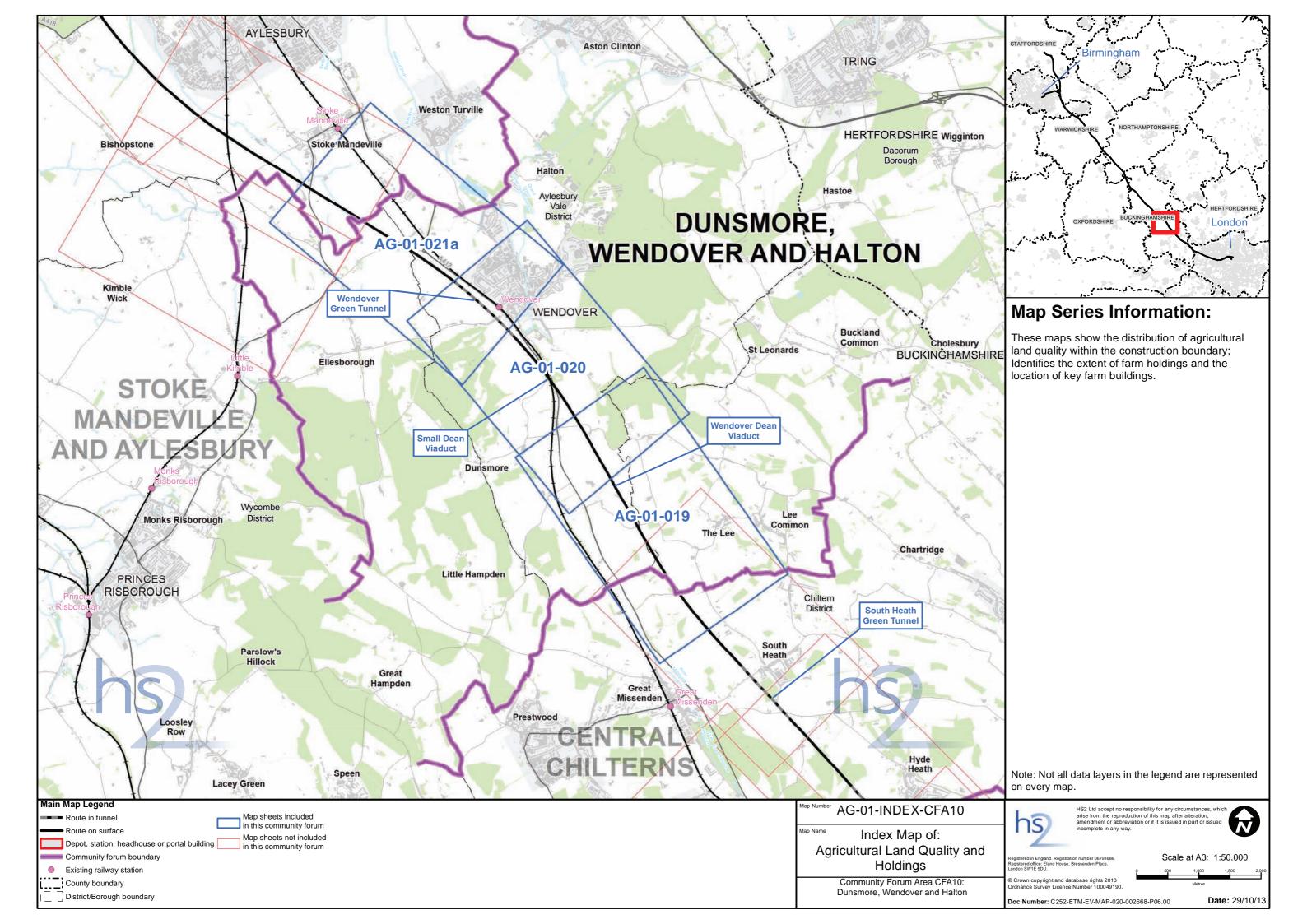


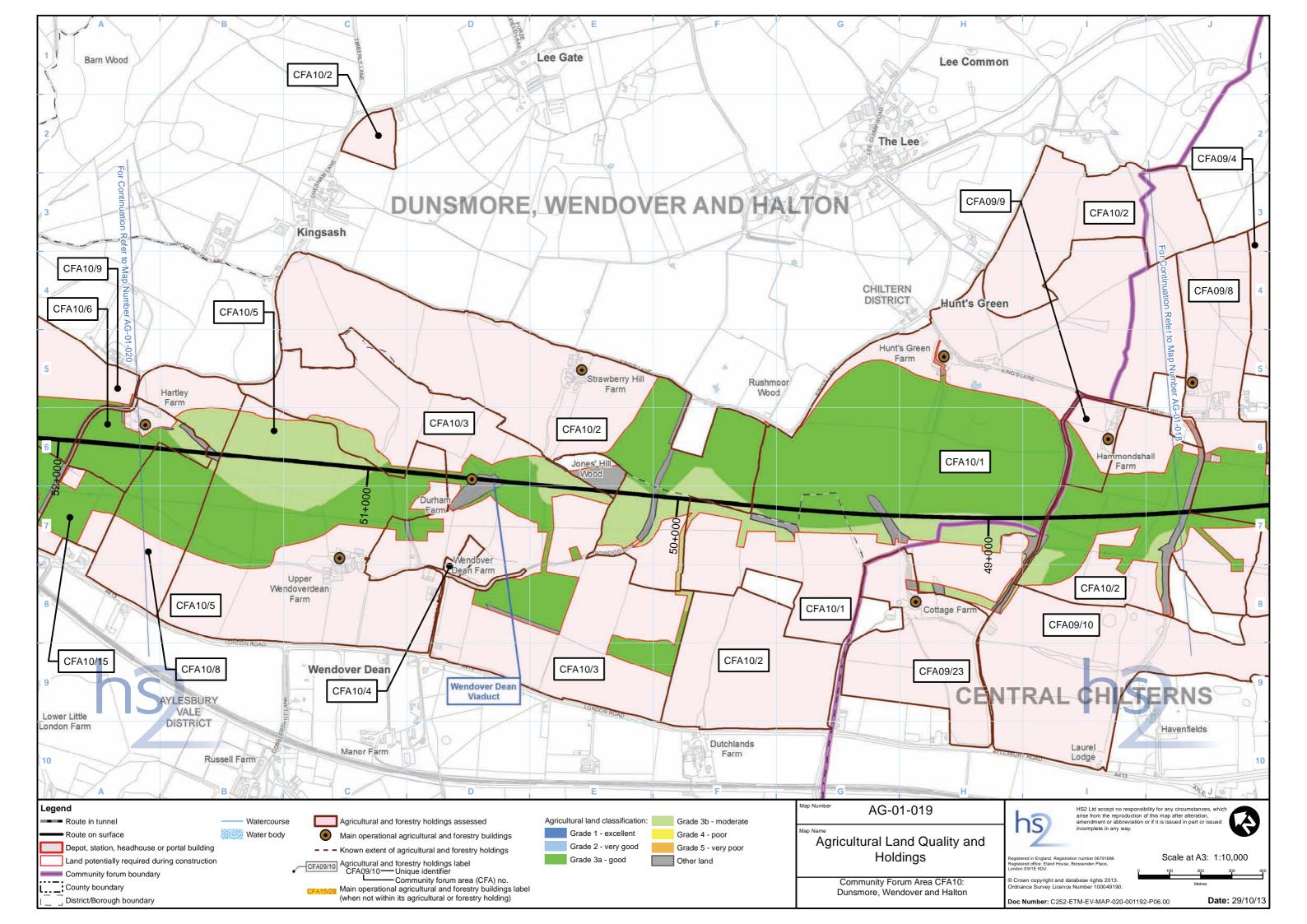


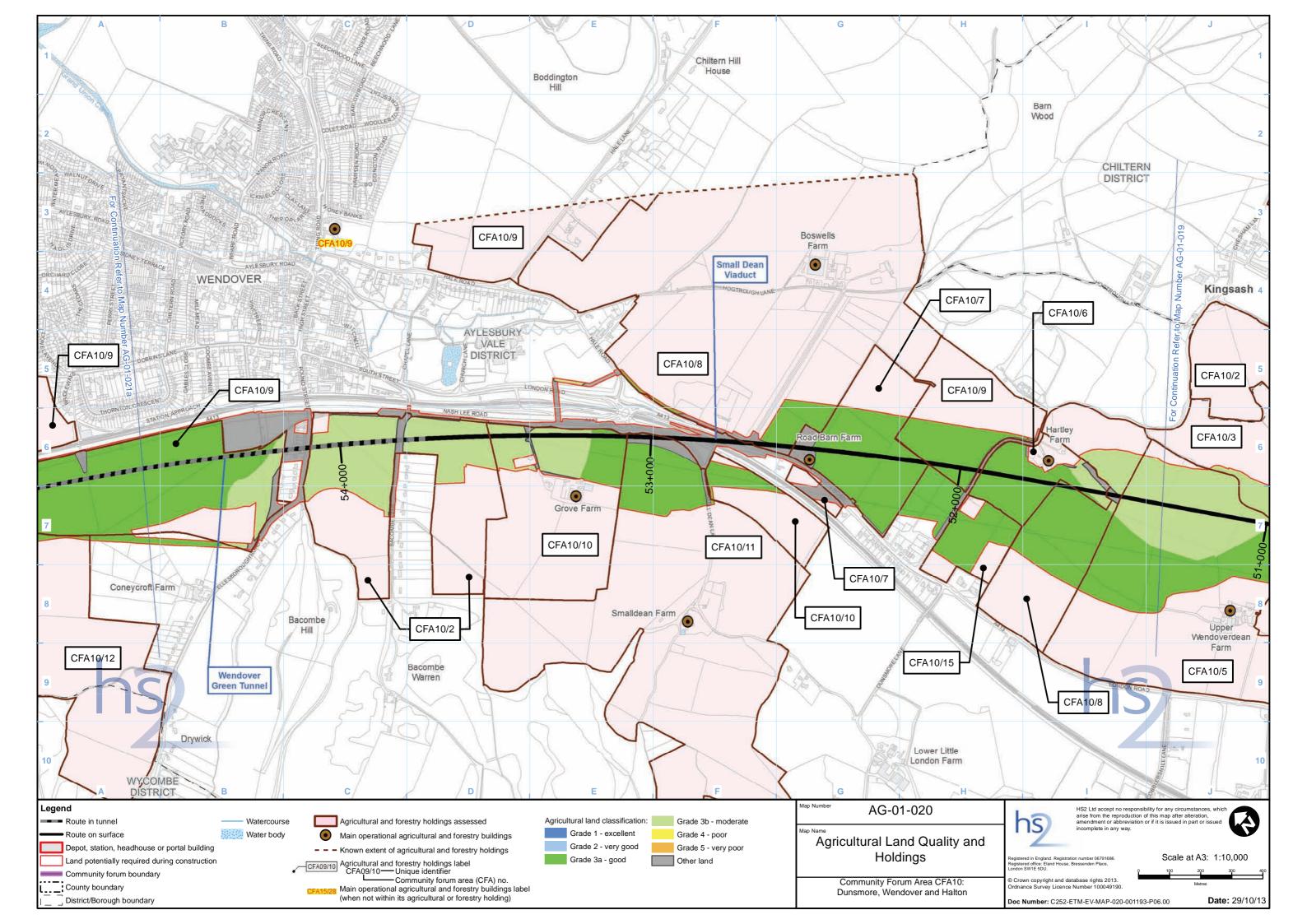


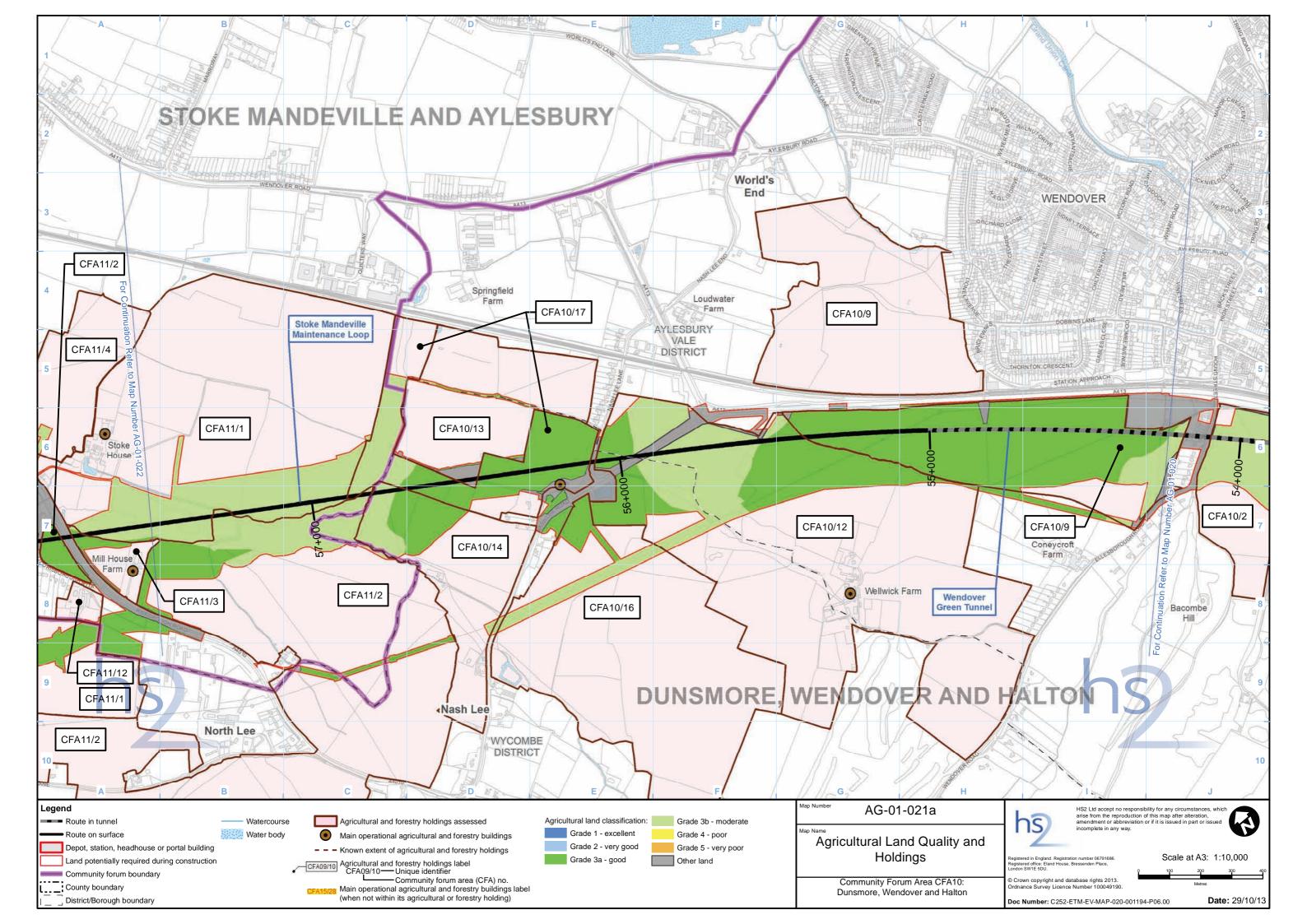
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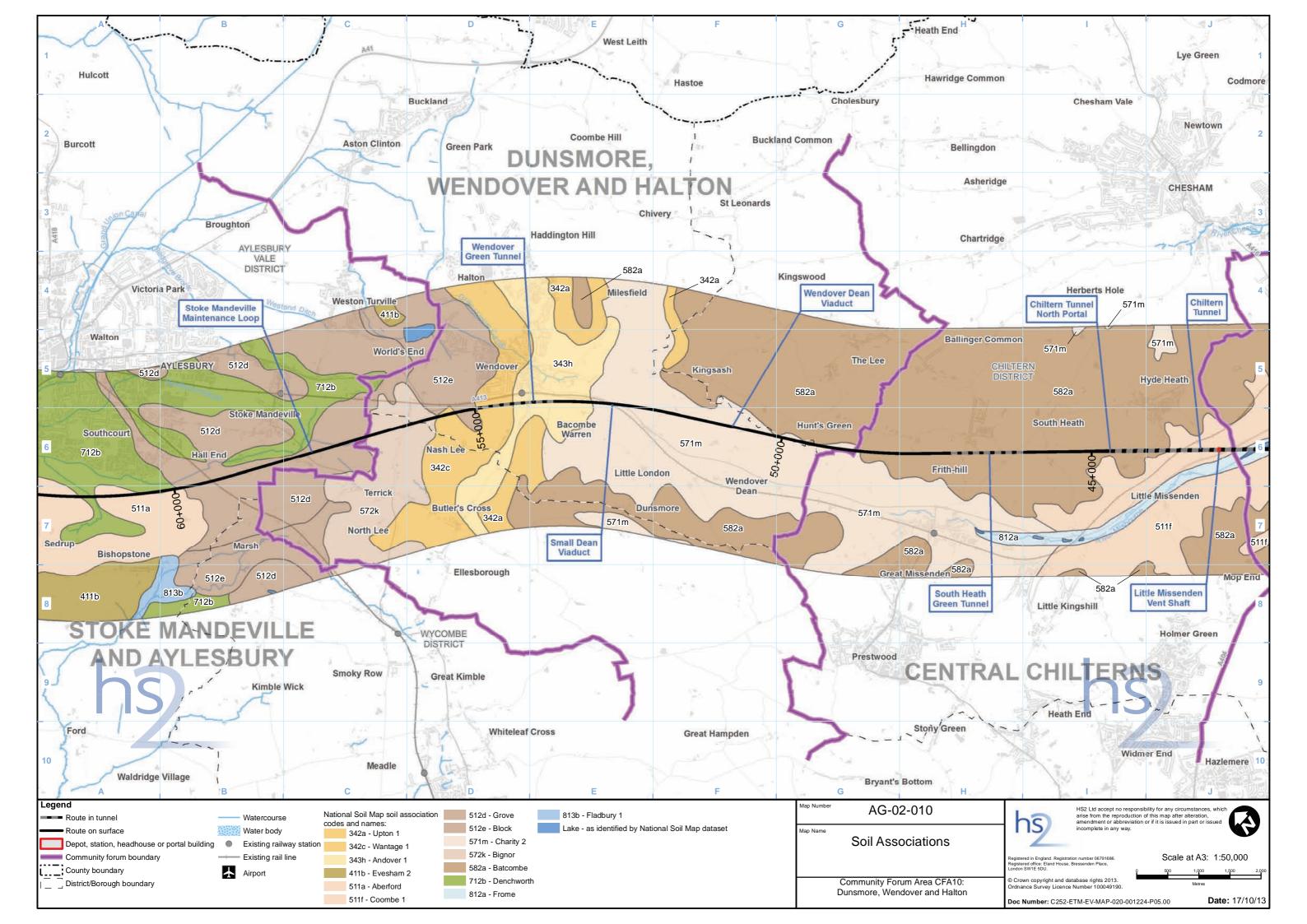
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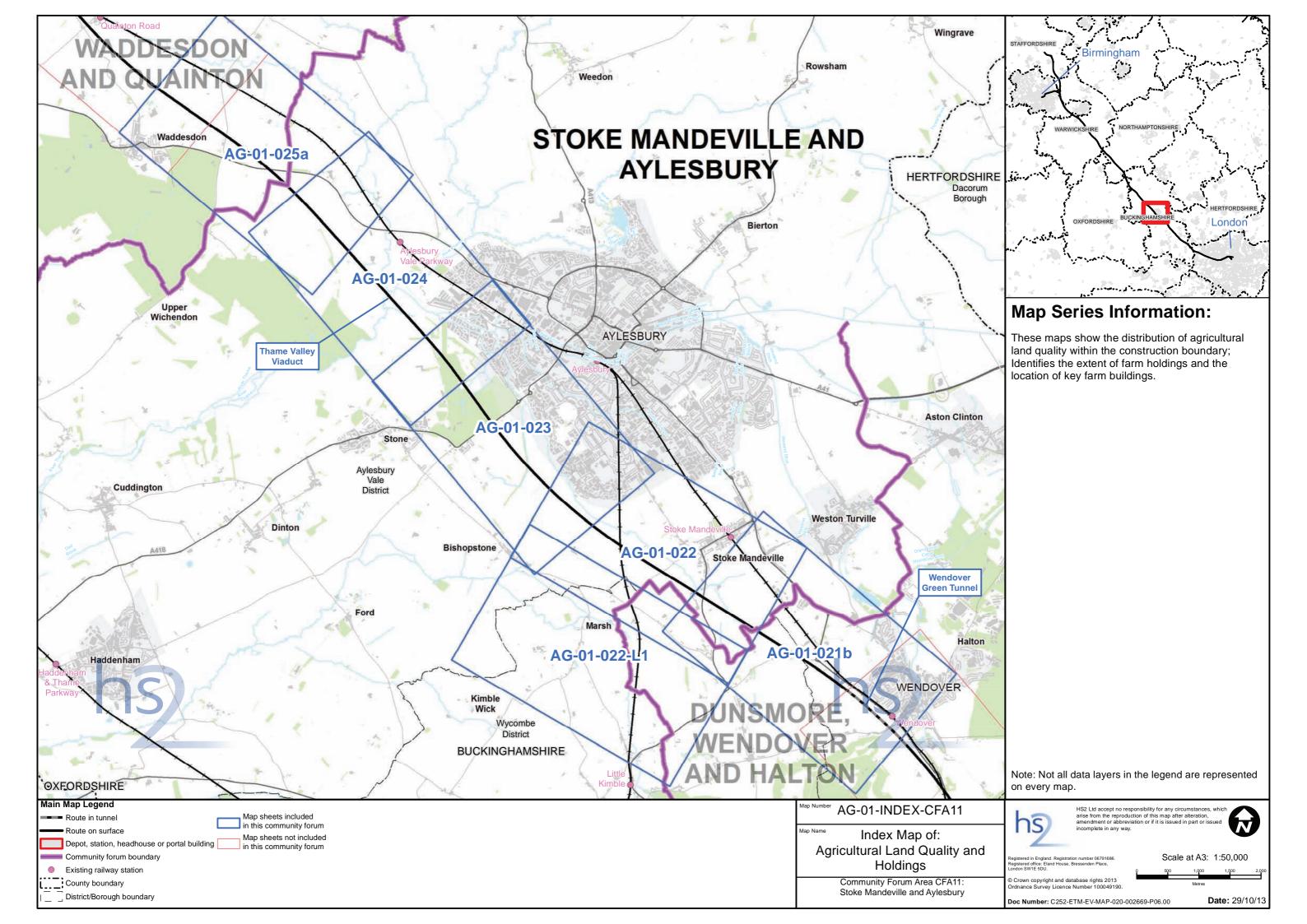


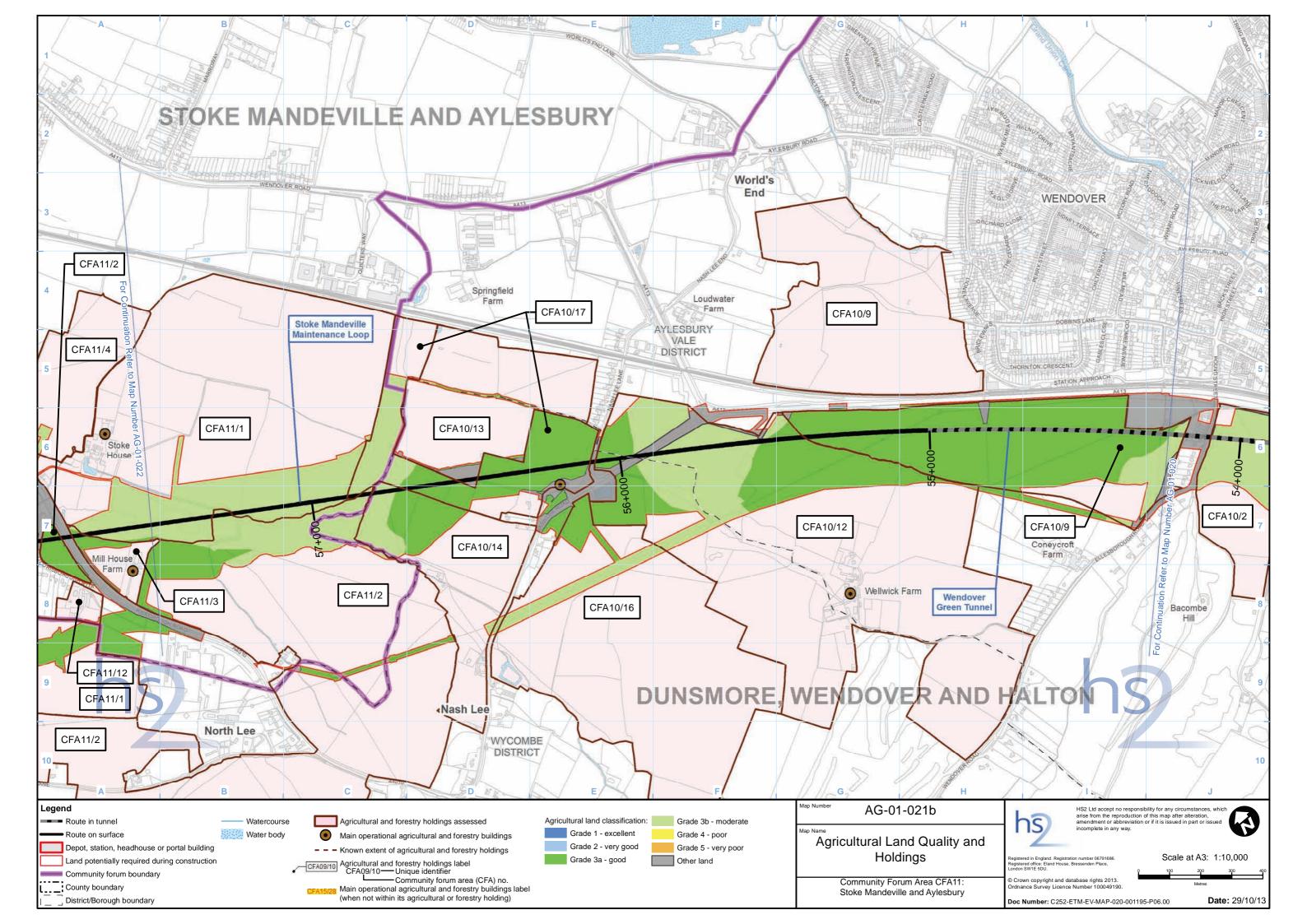


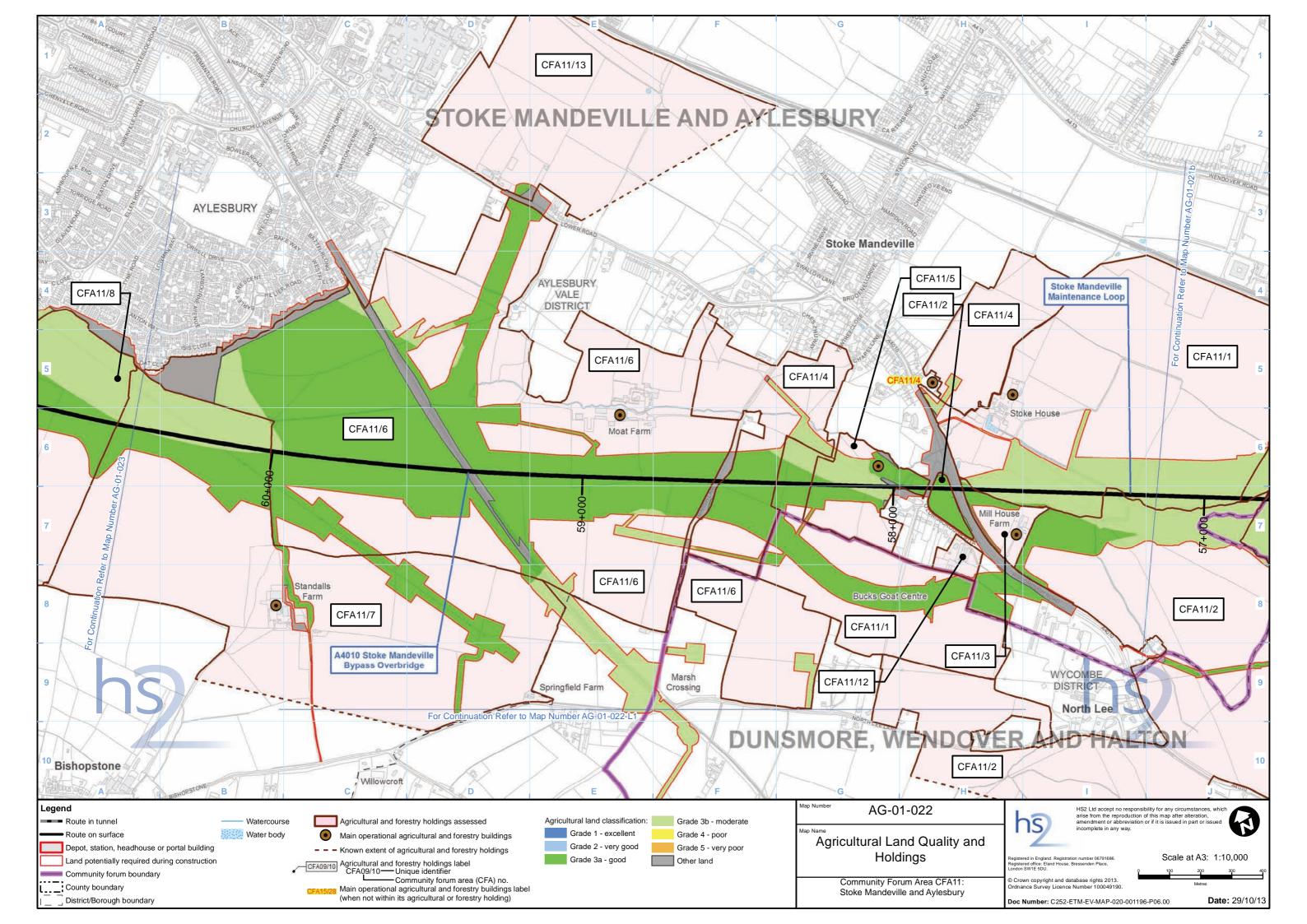


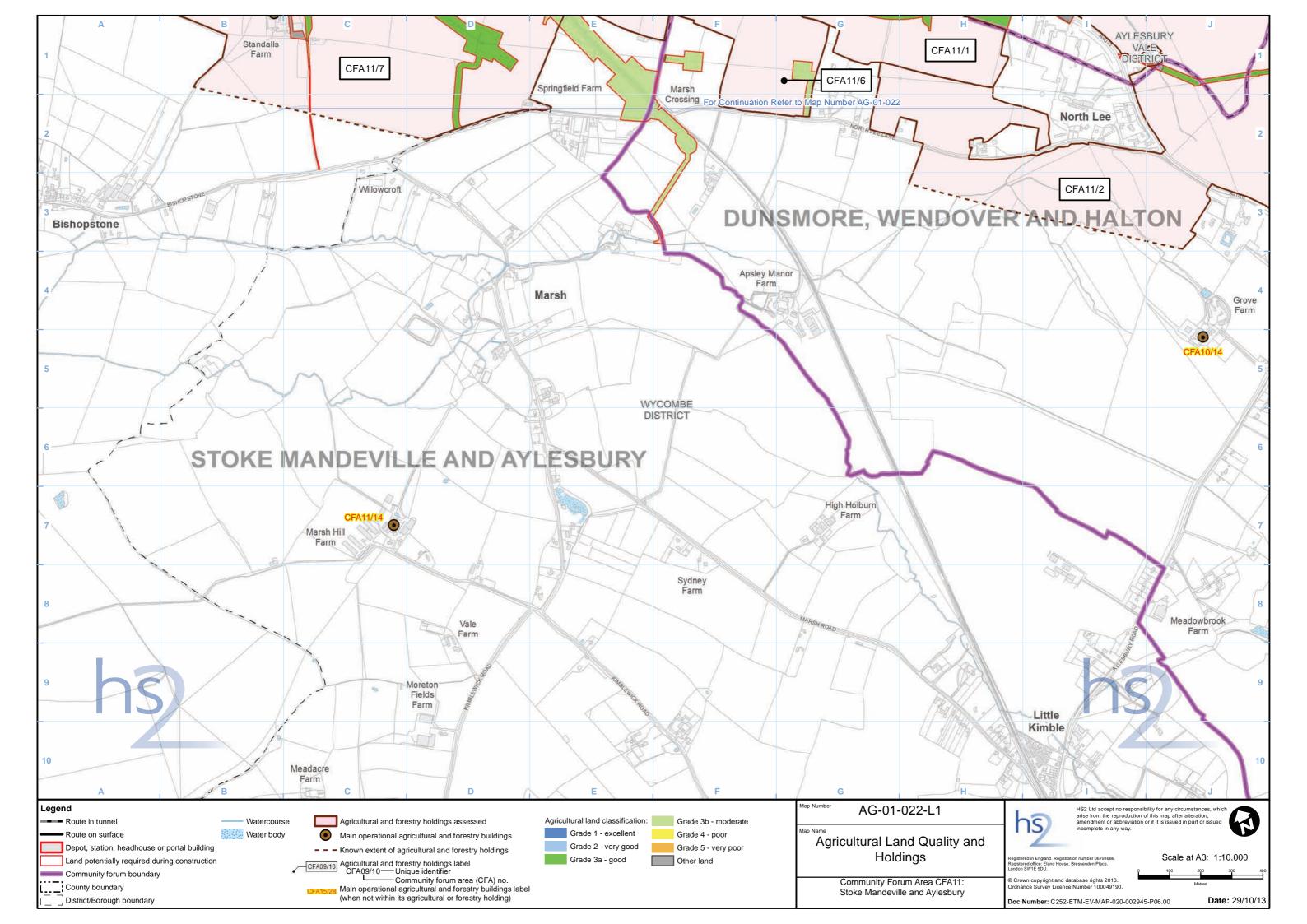
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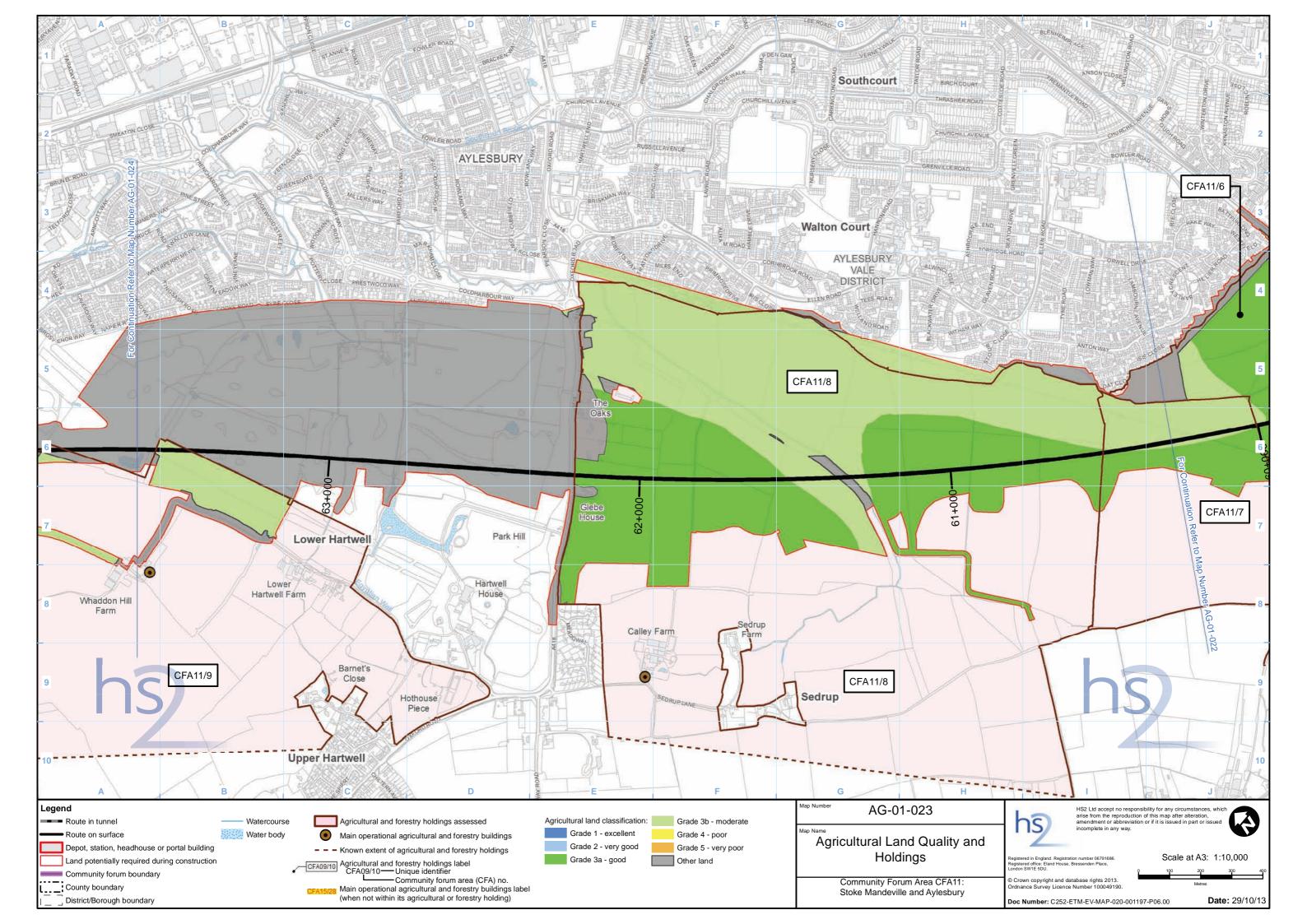
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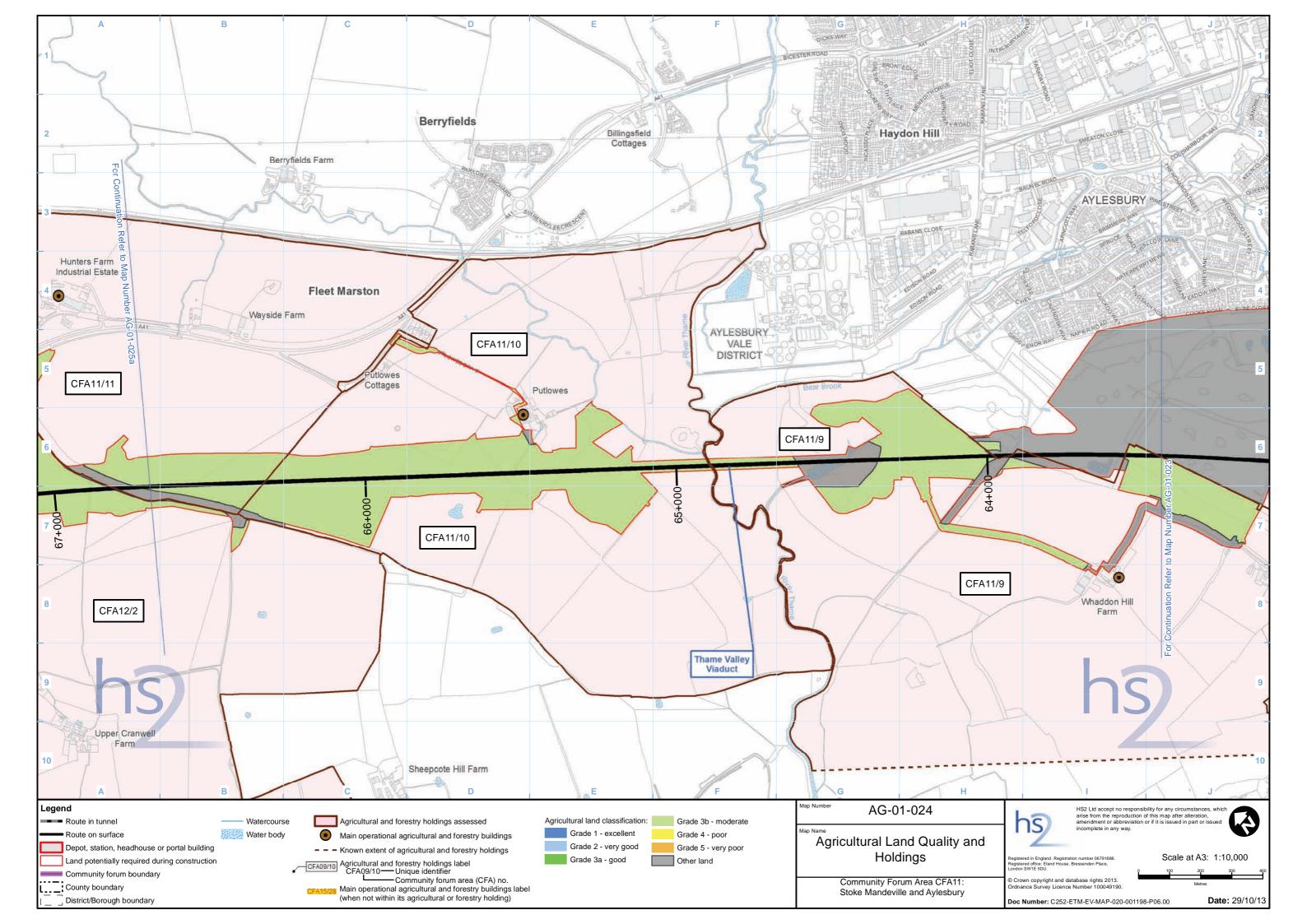


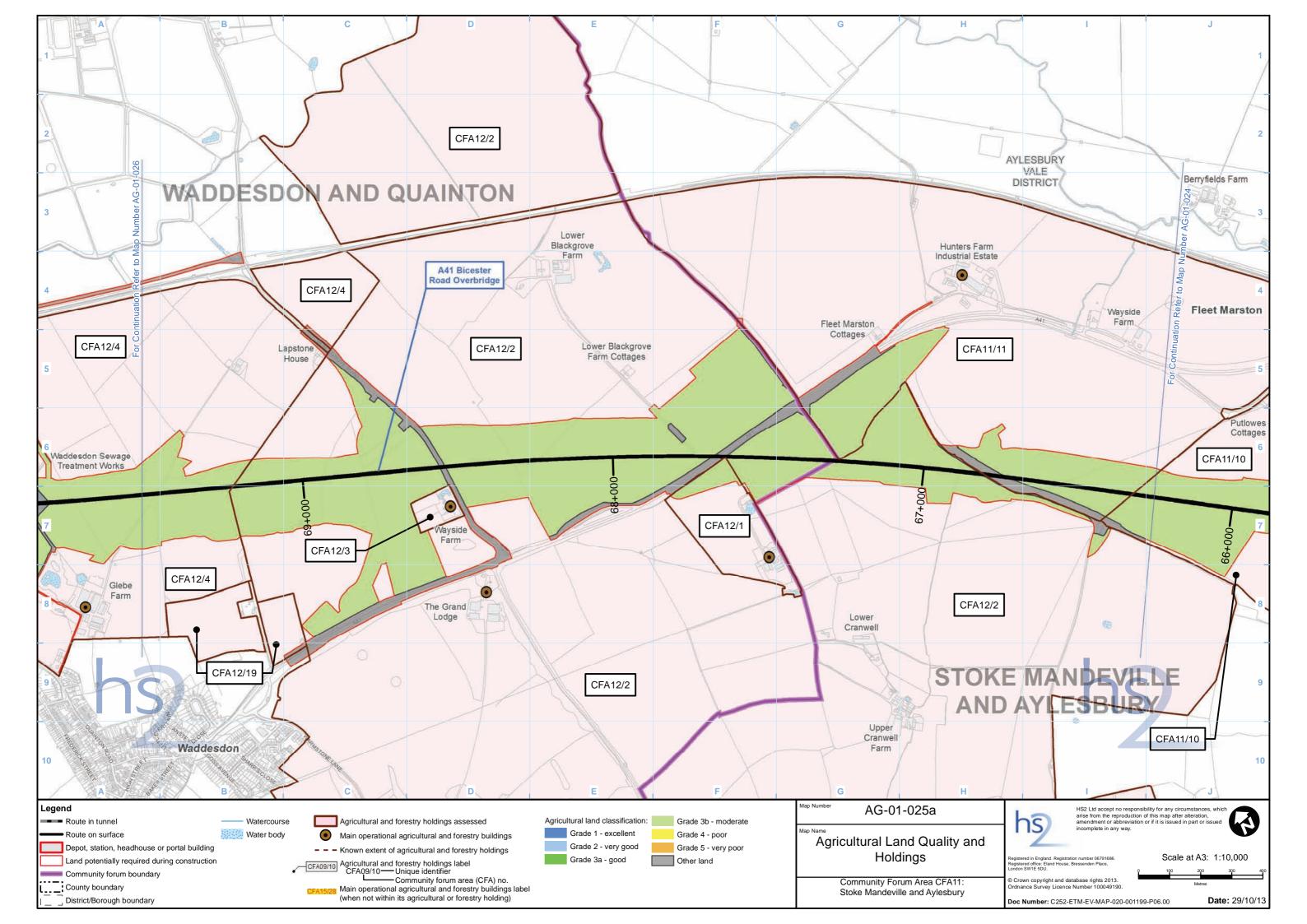


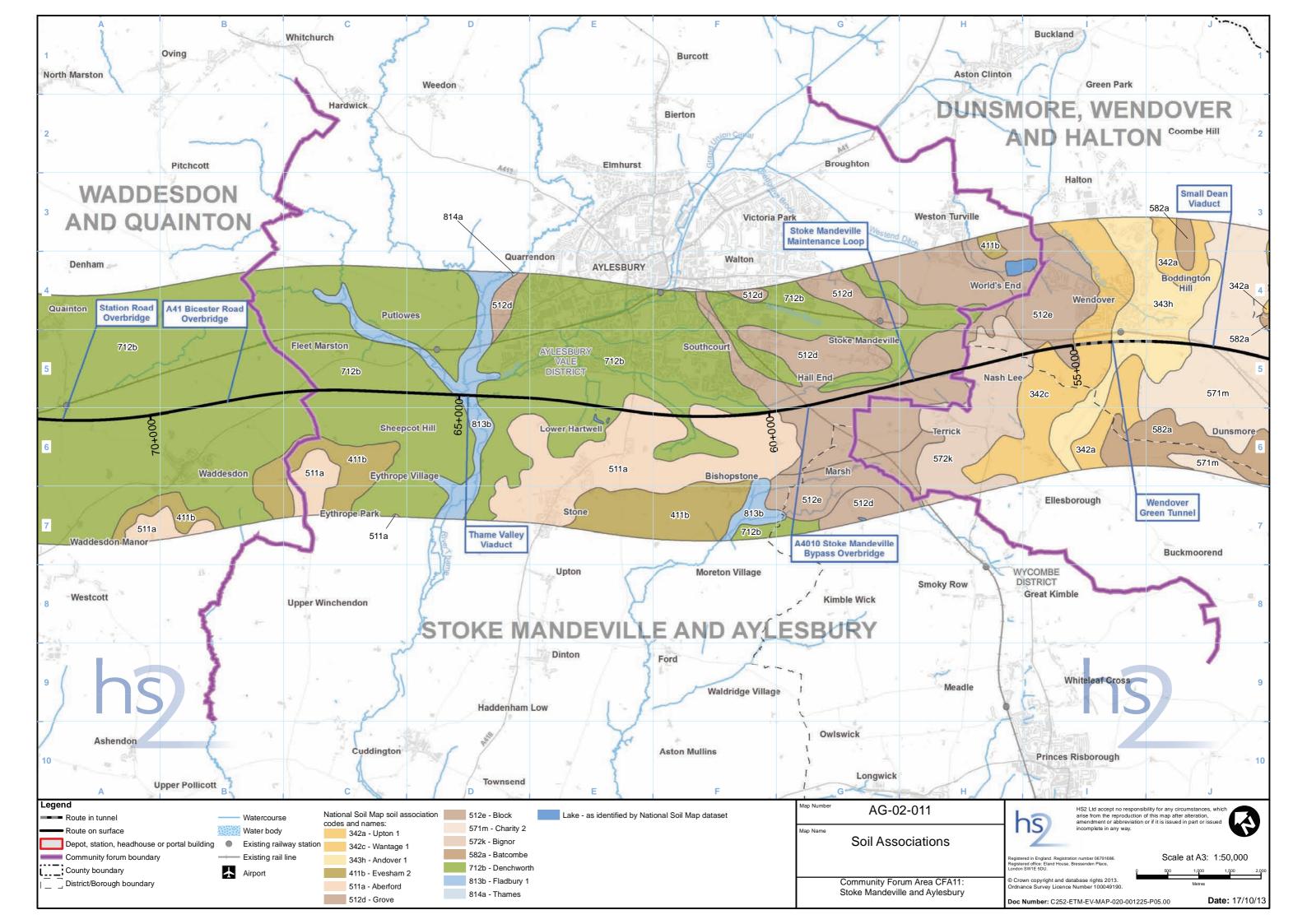










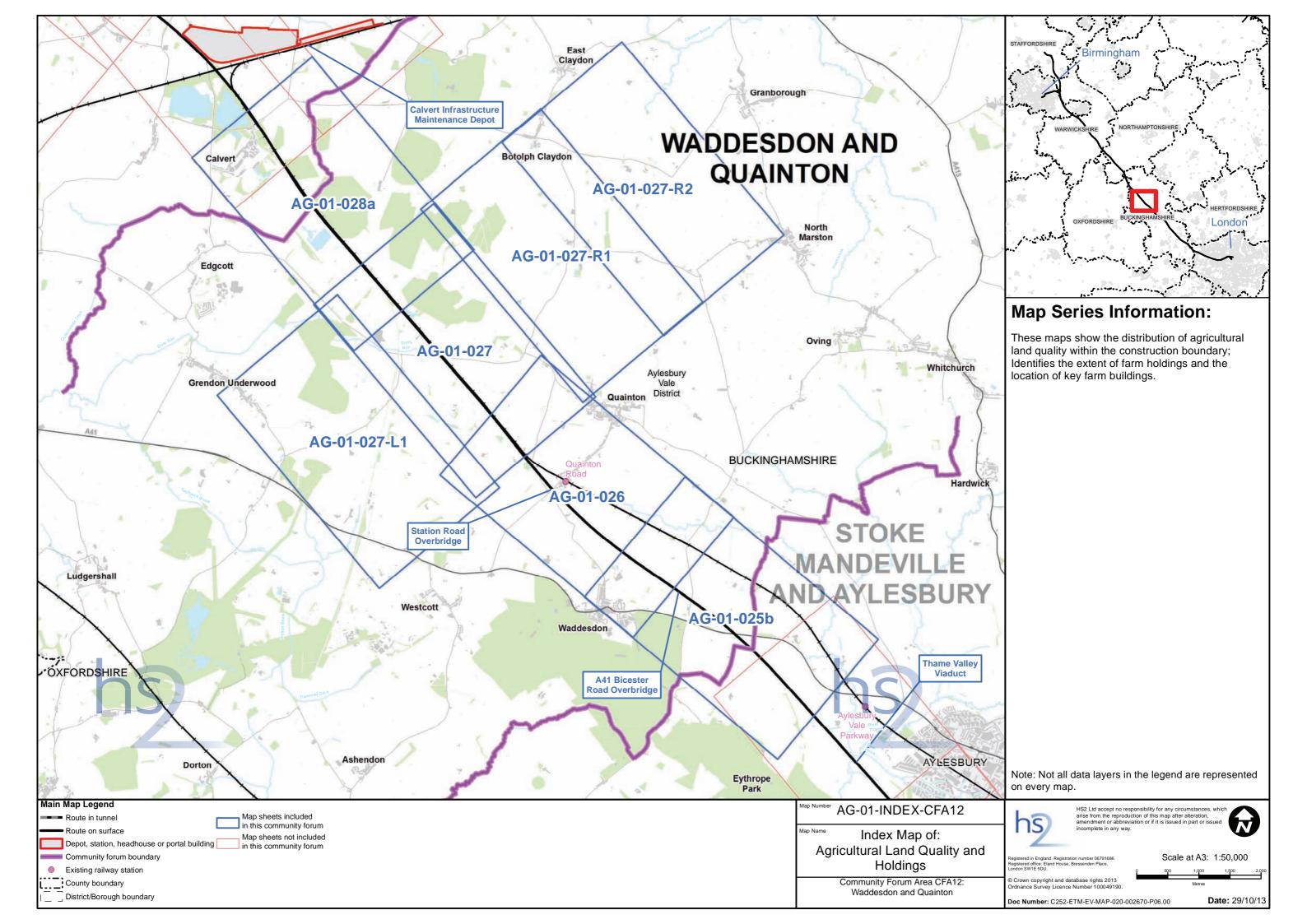


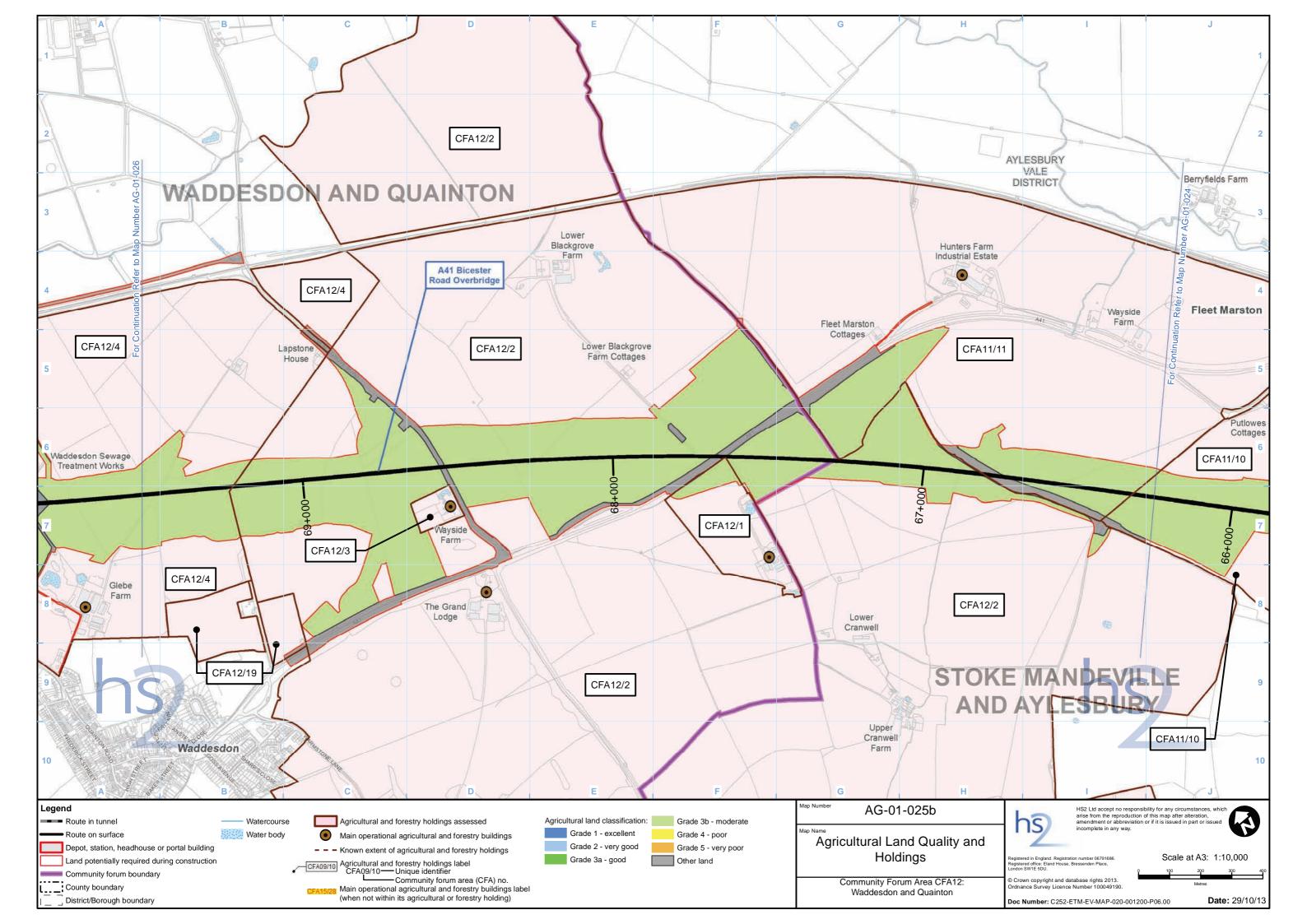
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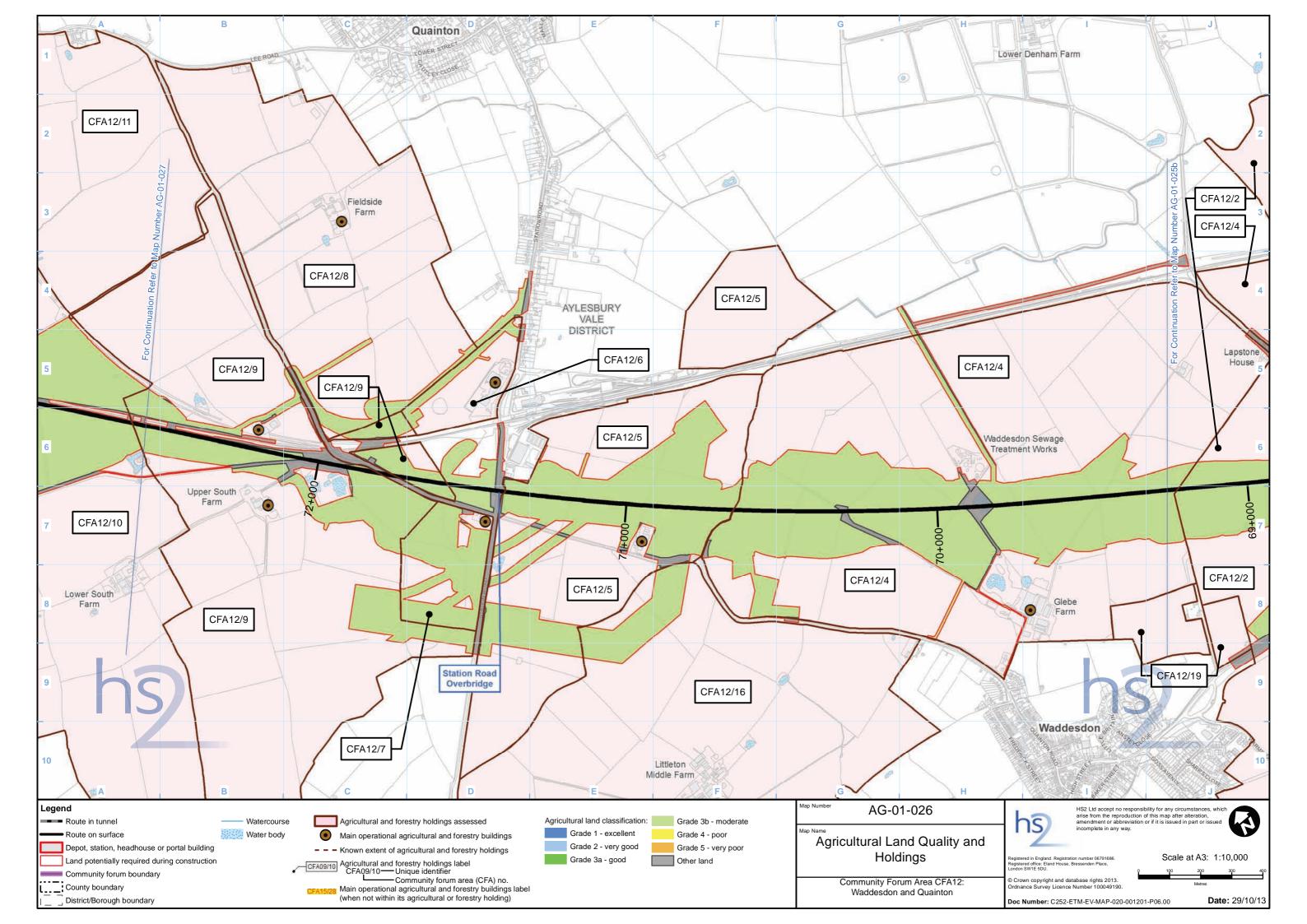


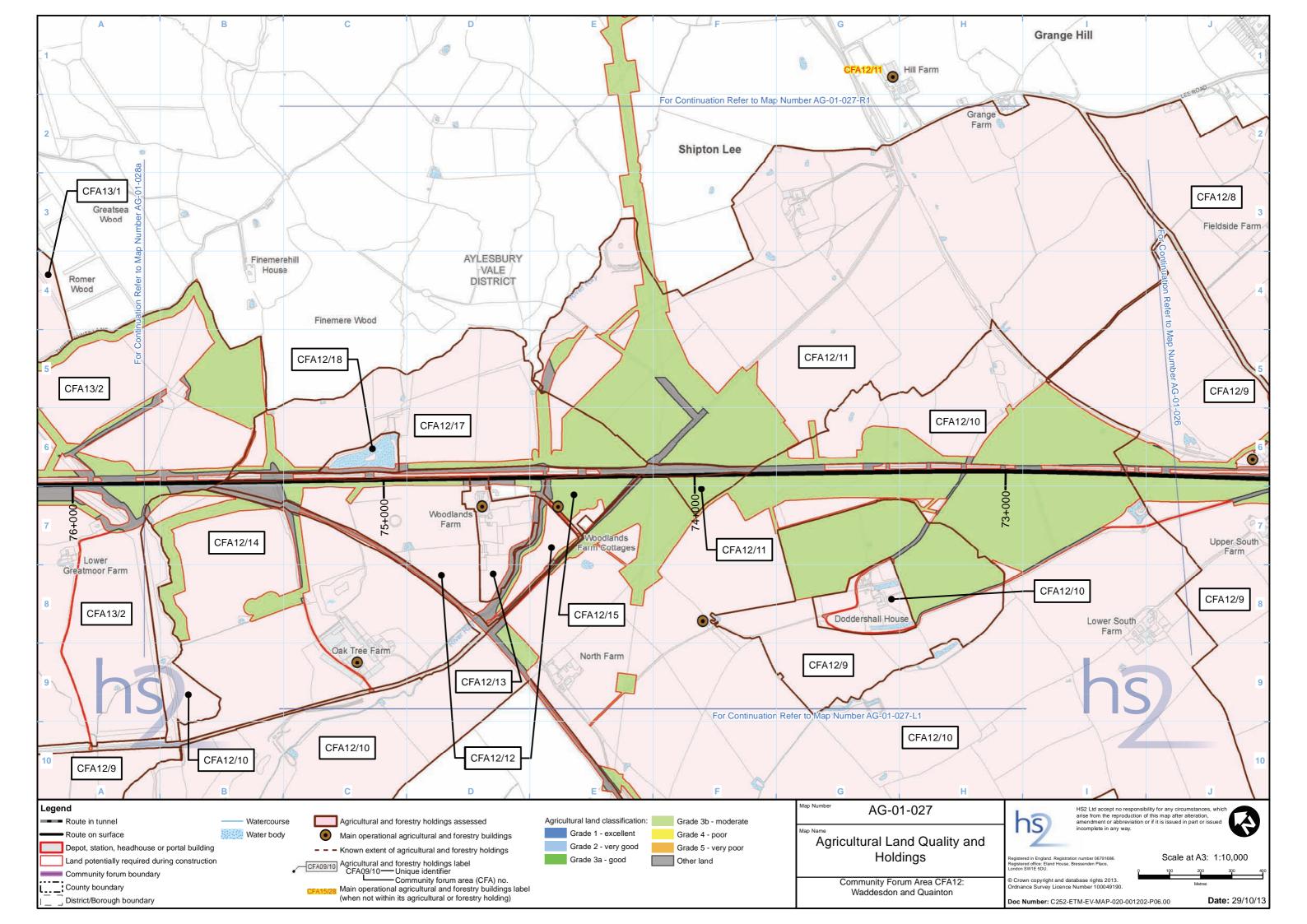
CFA<sub>12</sub> | Waddesdon and Quainton

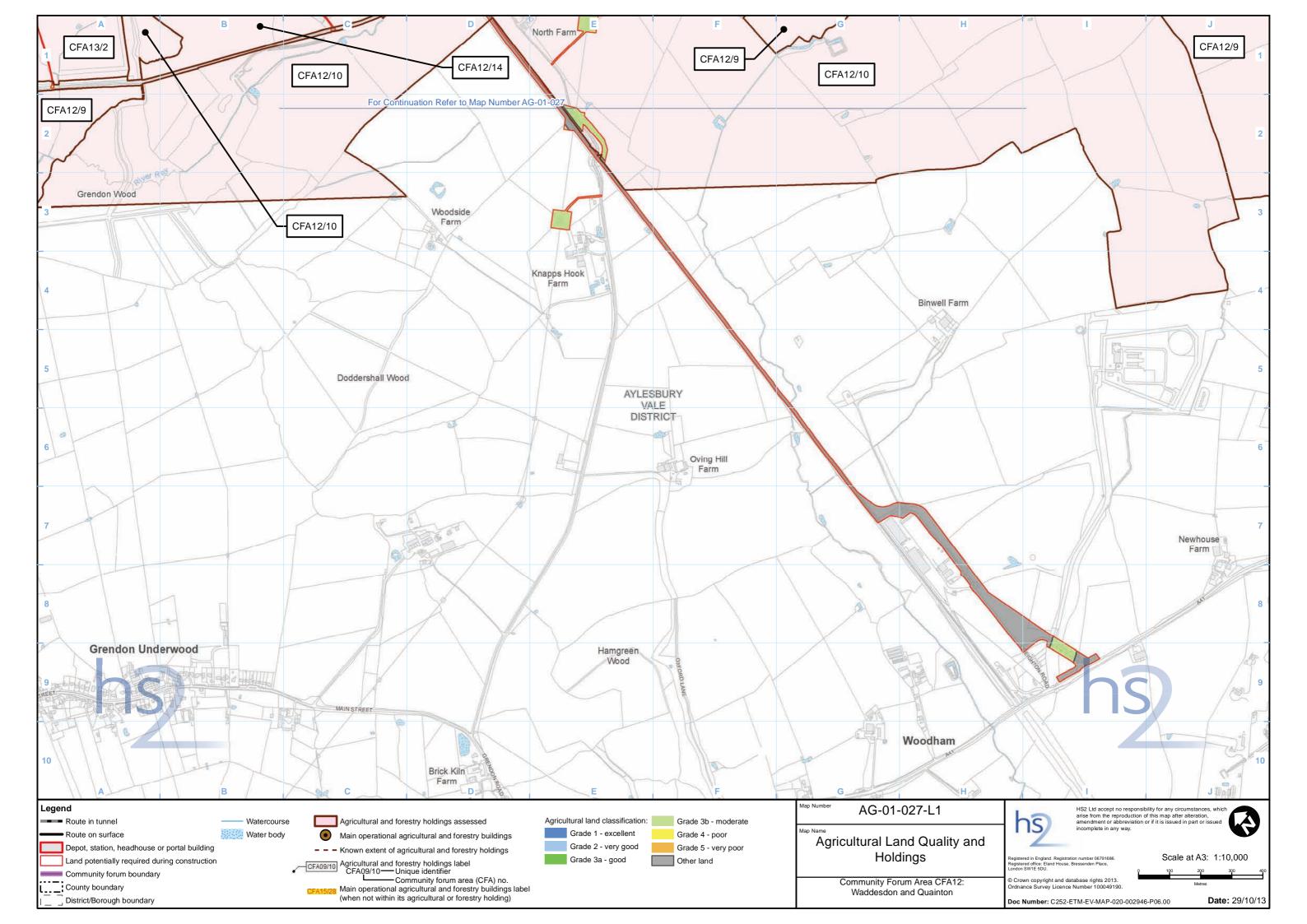
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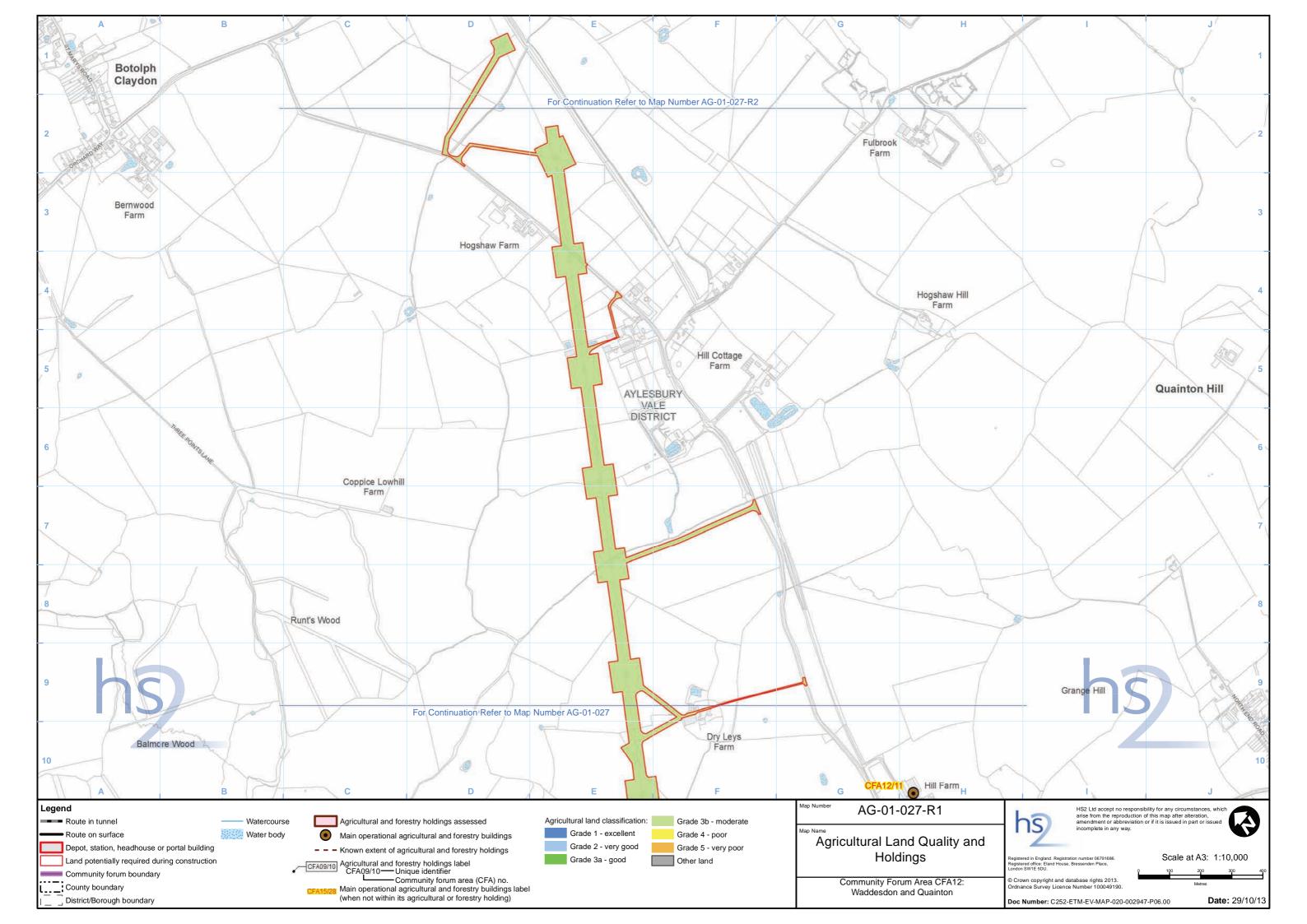


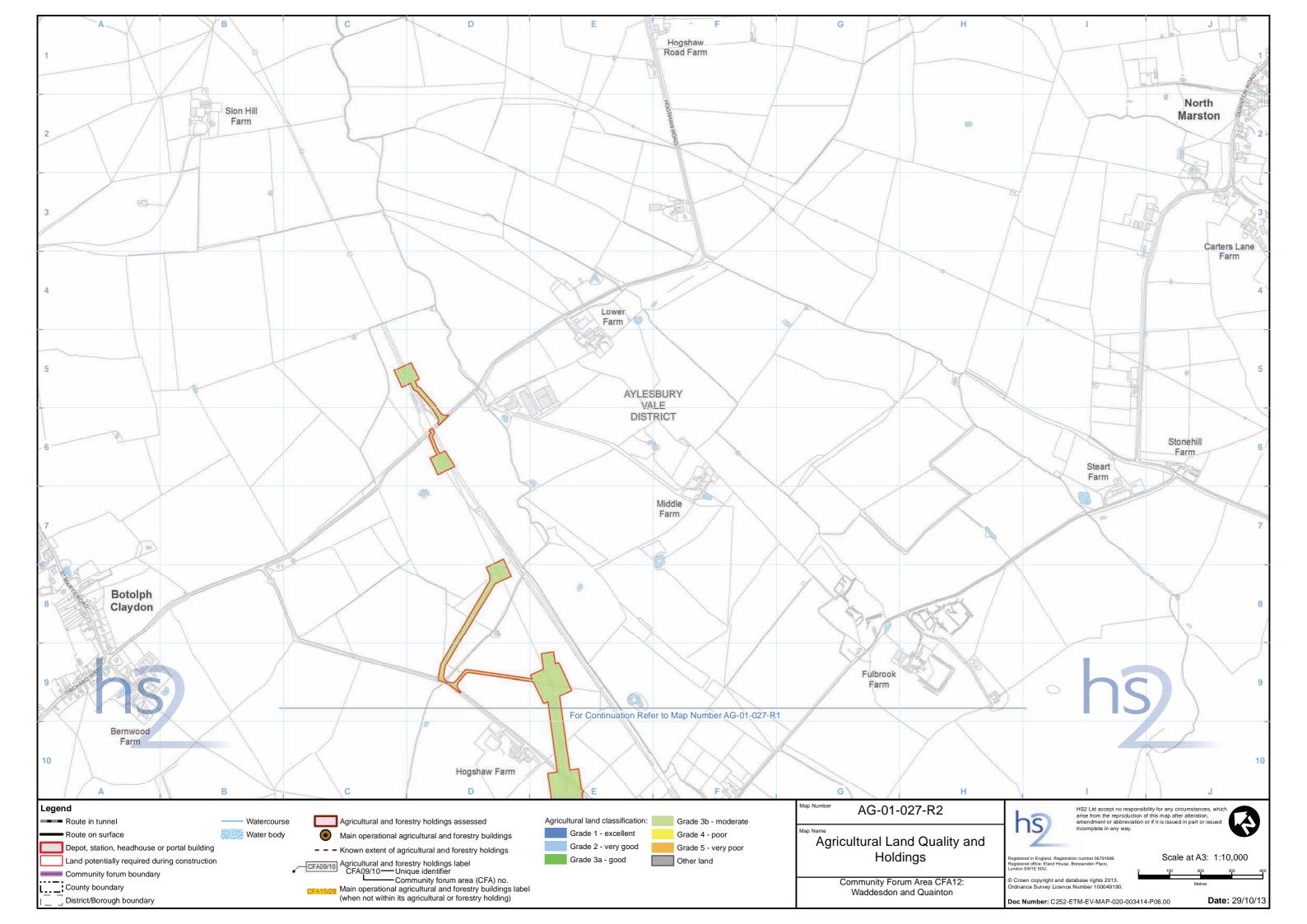


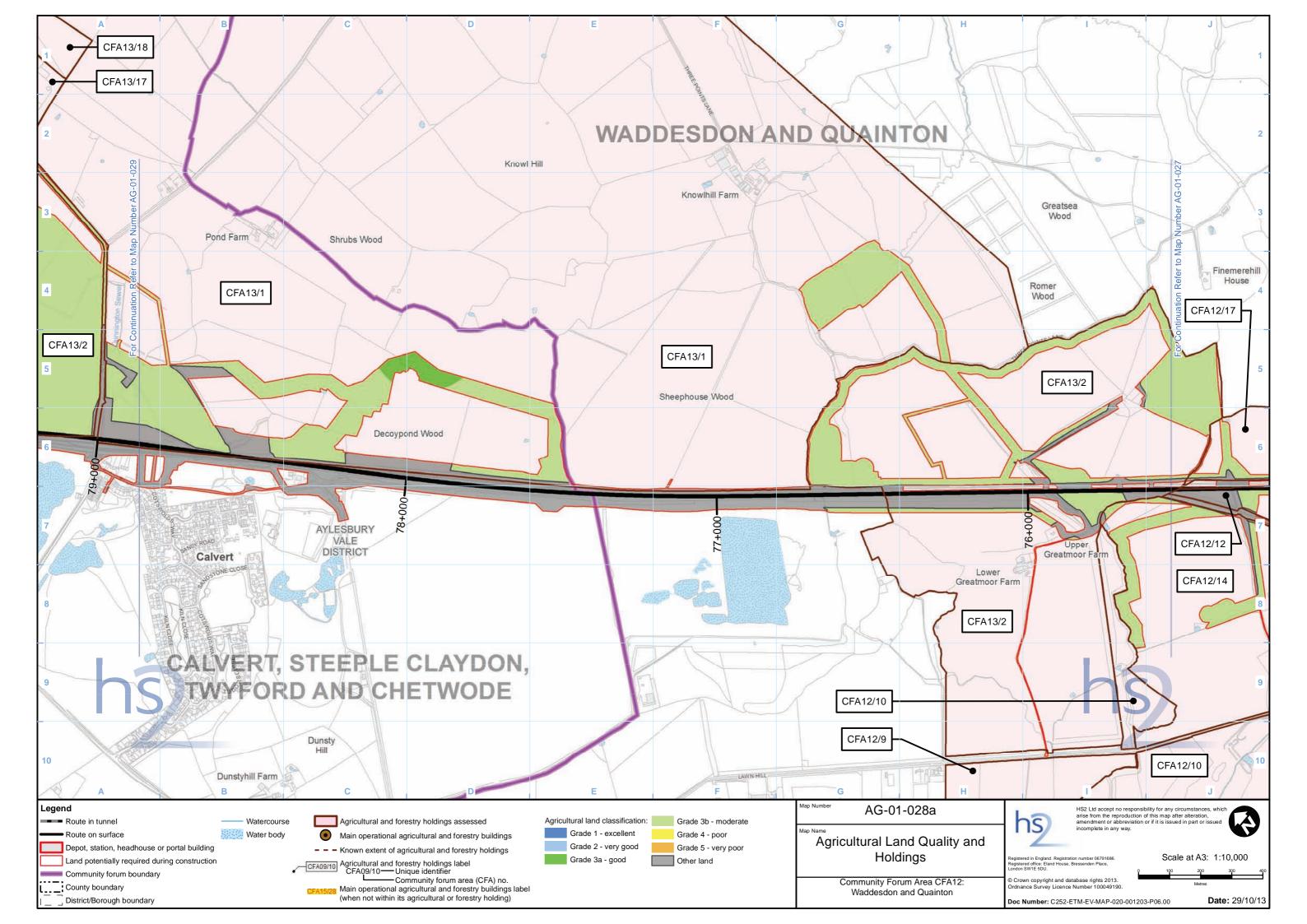


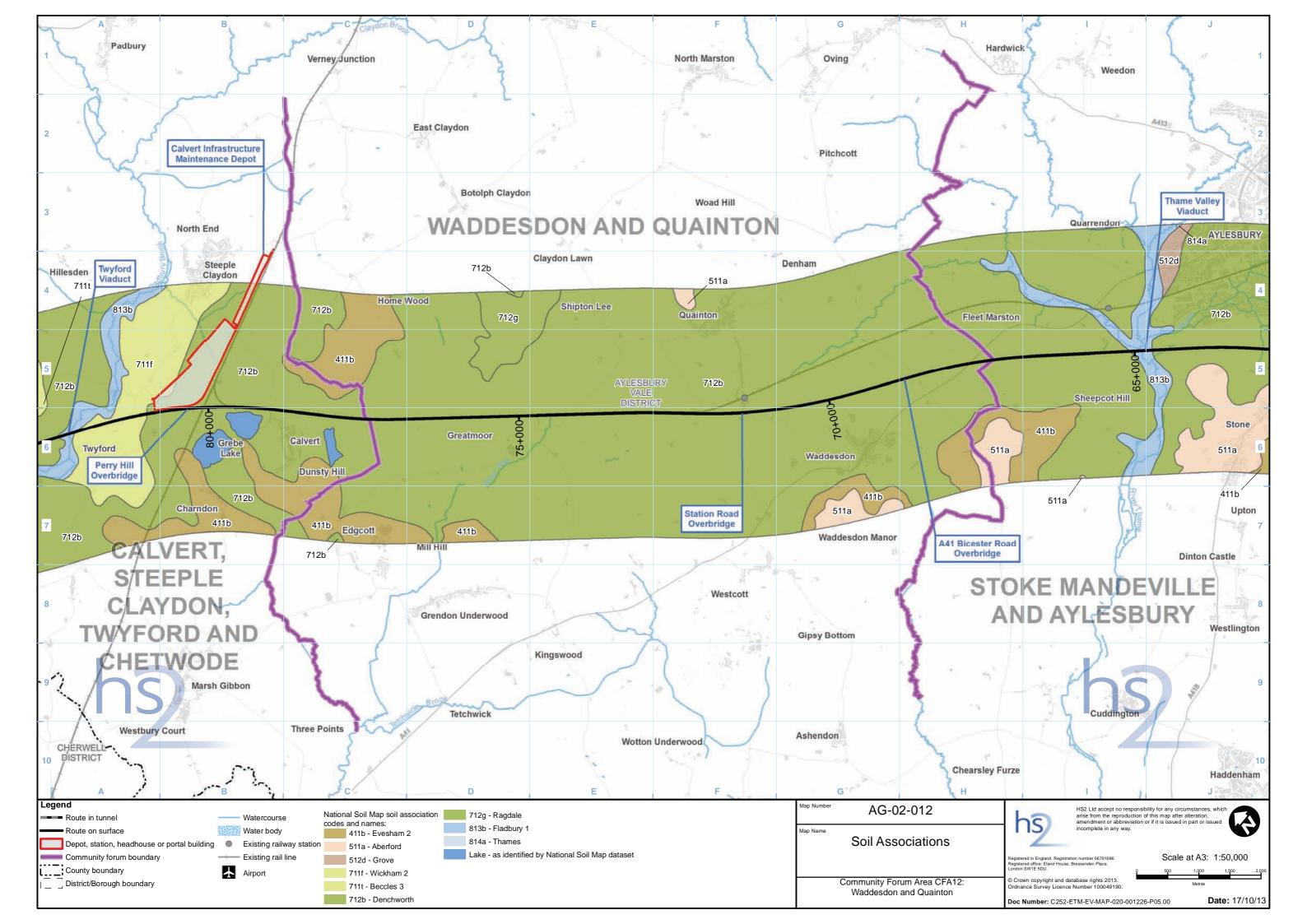








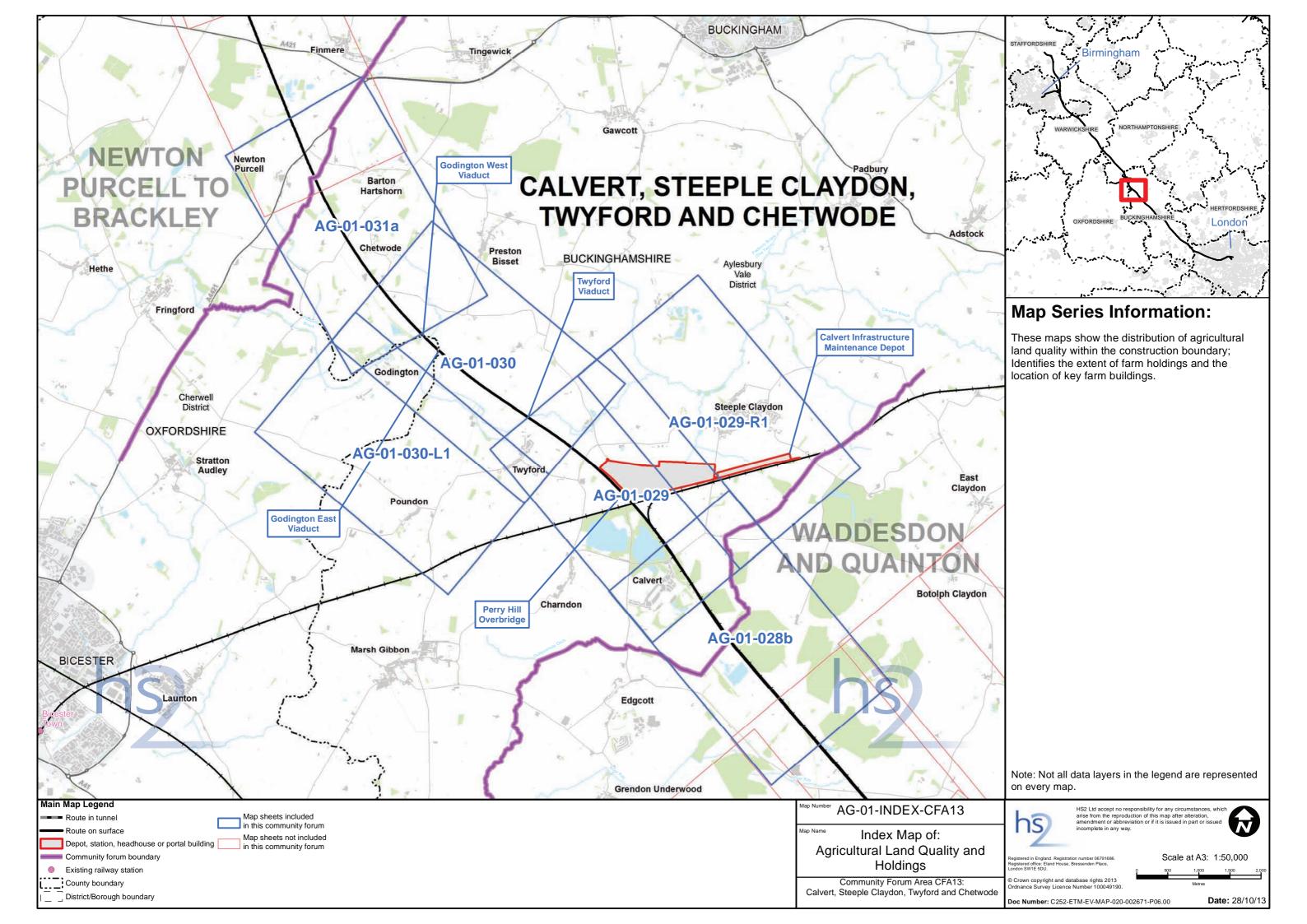


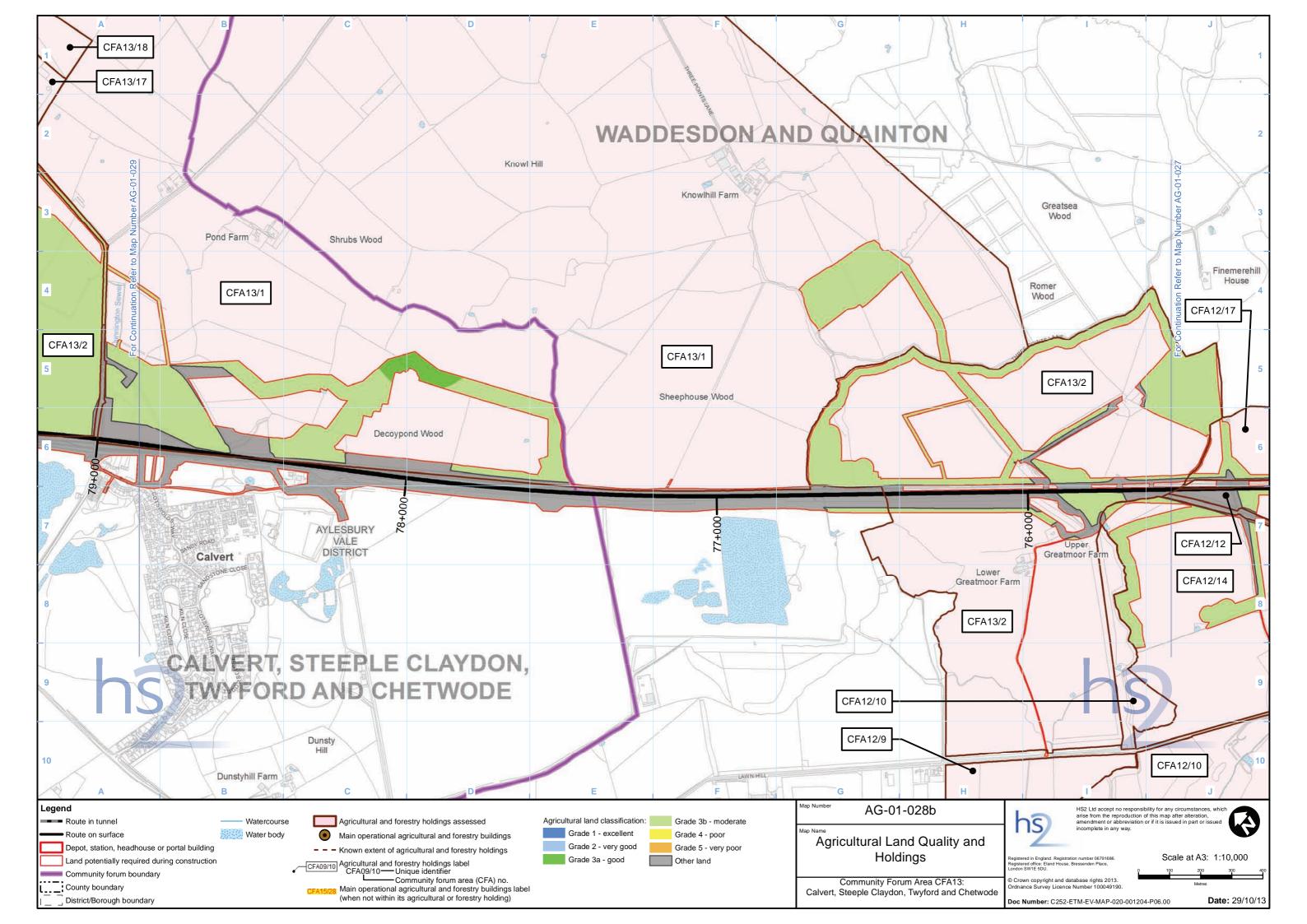


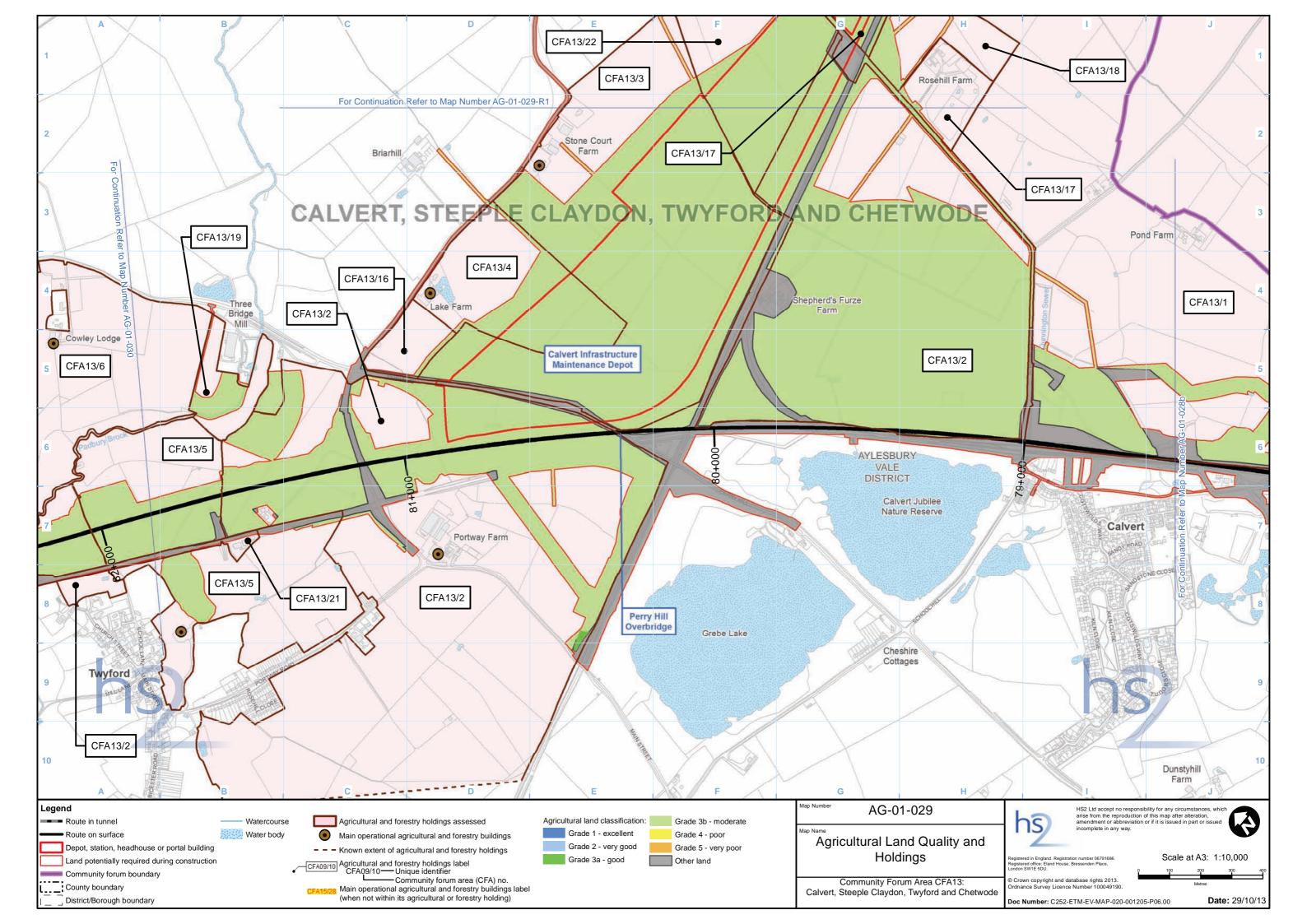


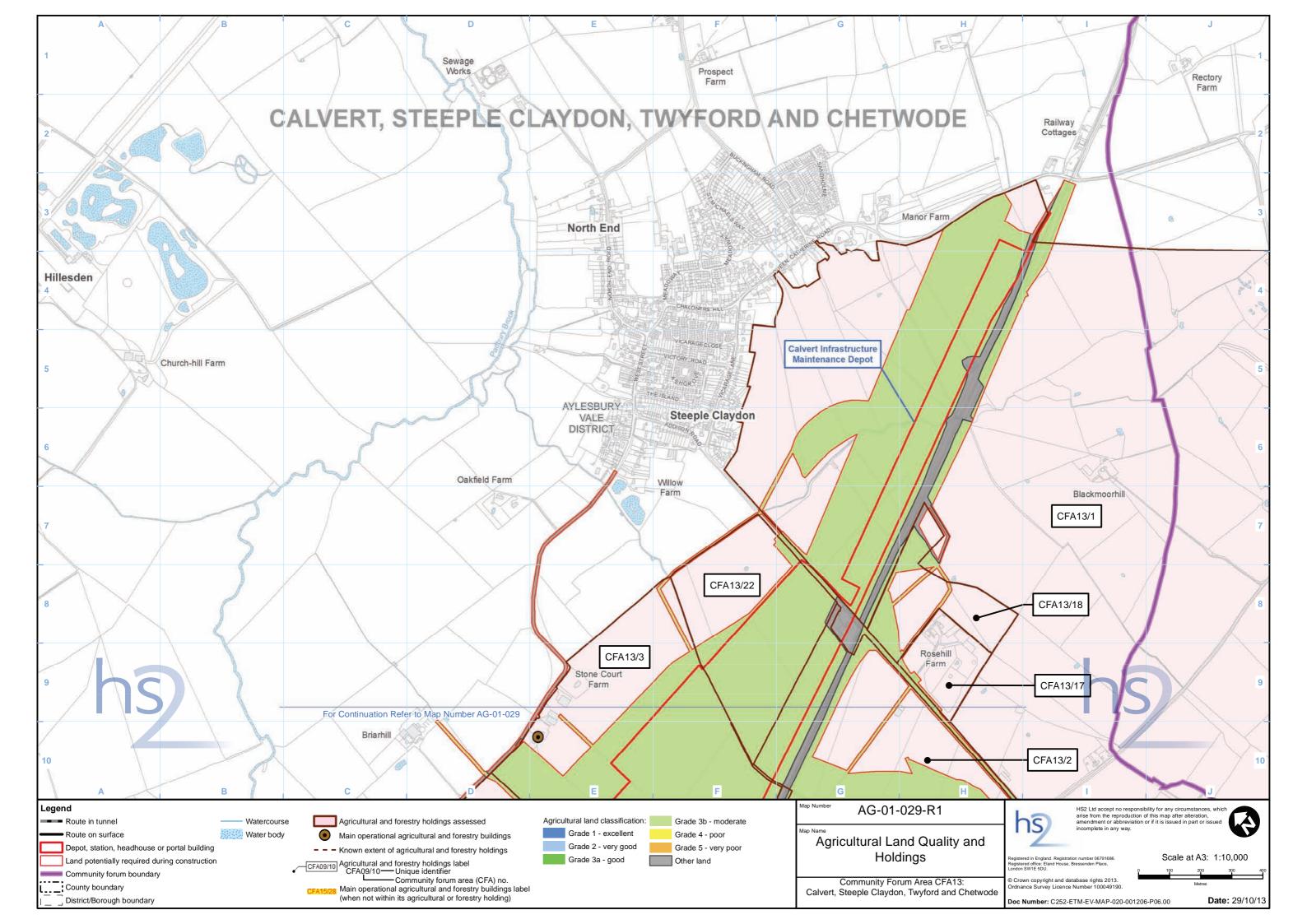
CFA<sub>13</sub> | Calvert, Steeple Claydon, Twyford and Chetwode

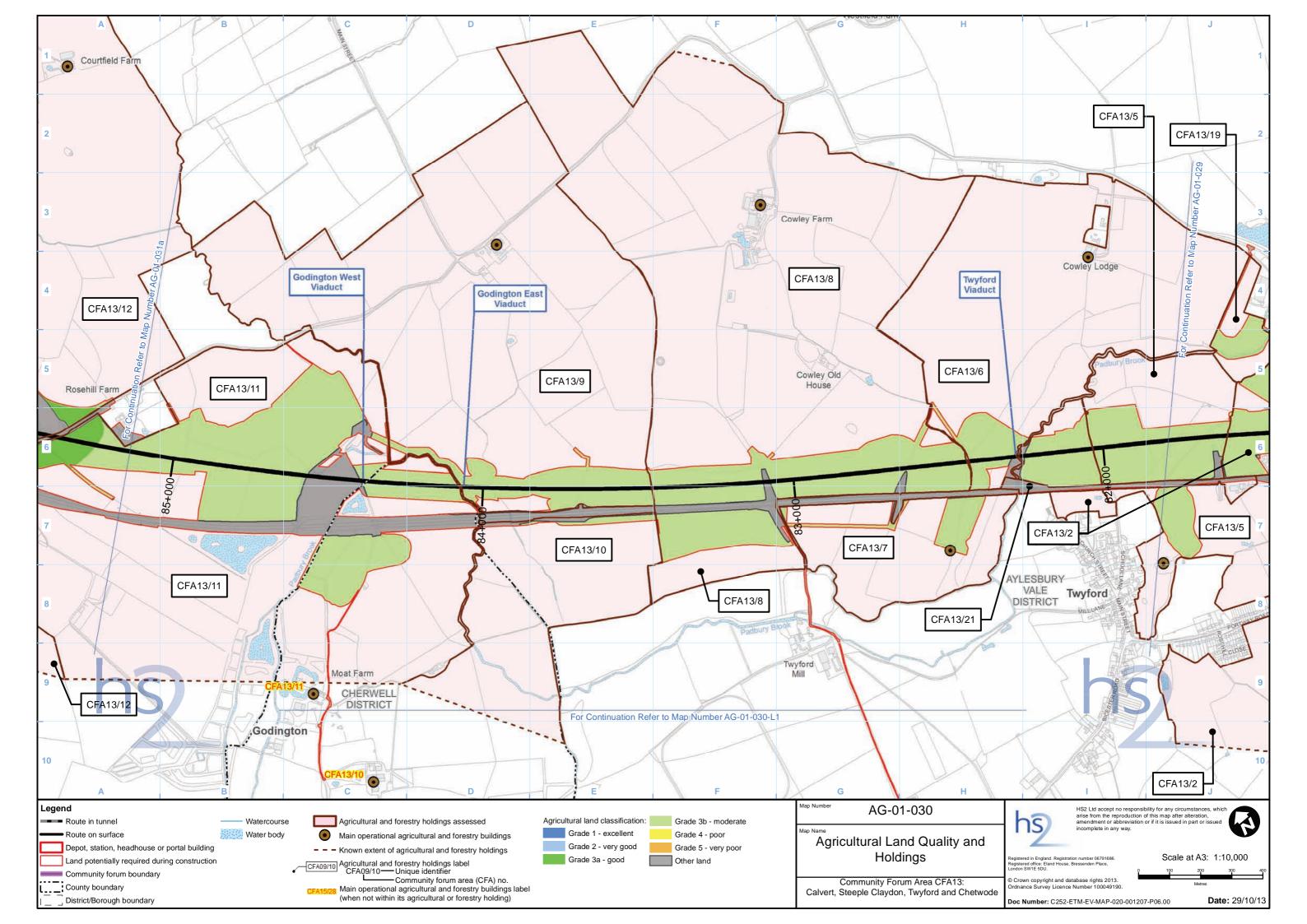
AG-01 - Agricultural Land Quality and Holdings

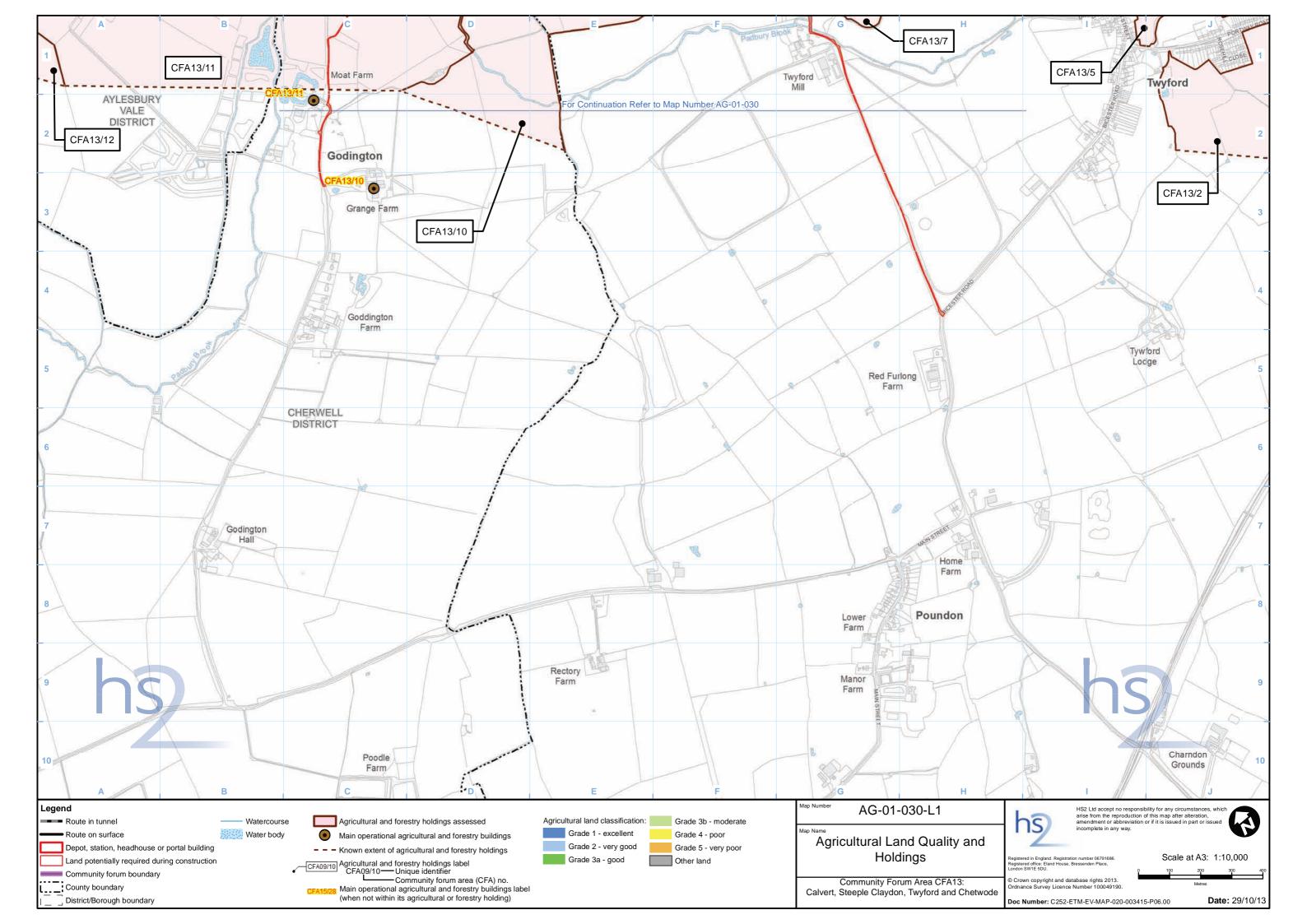


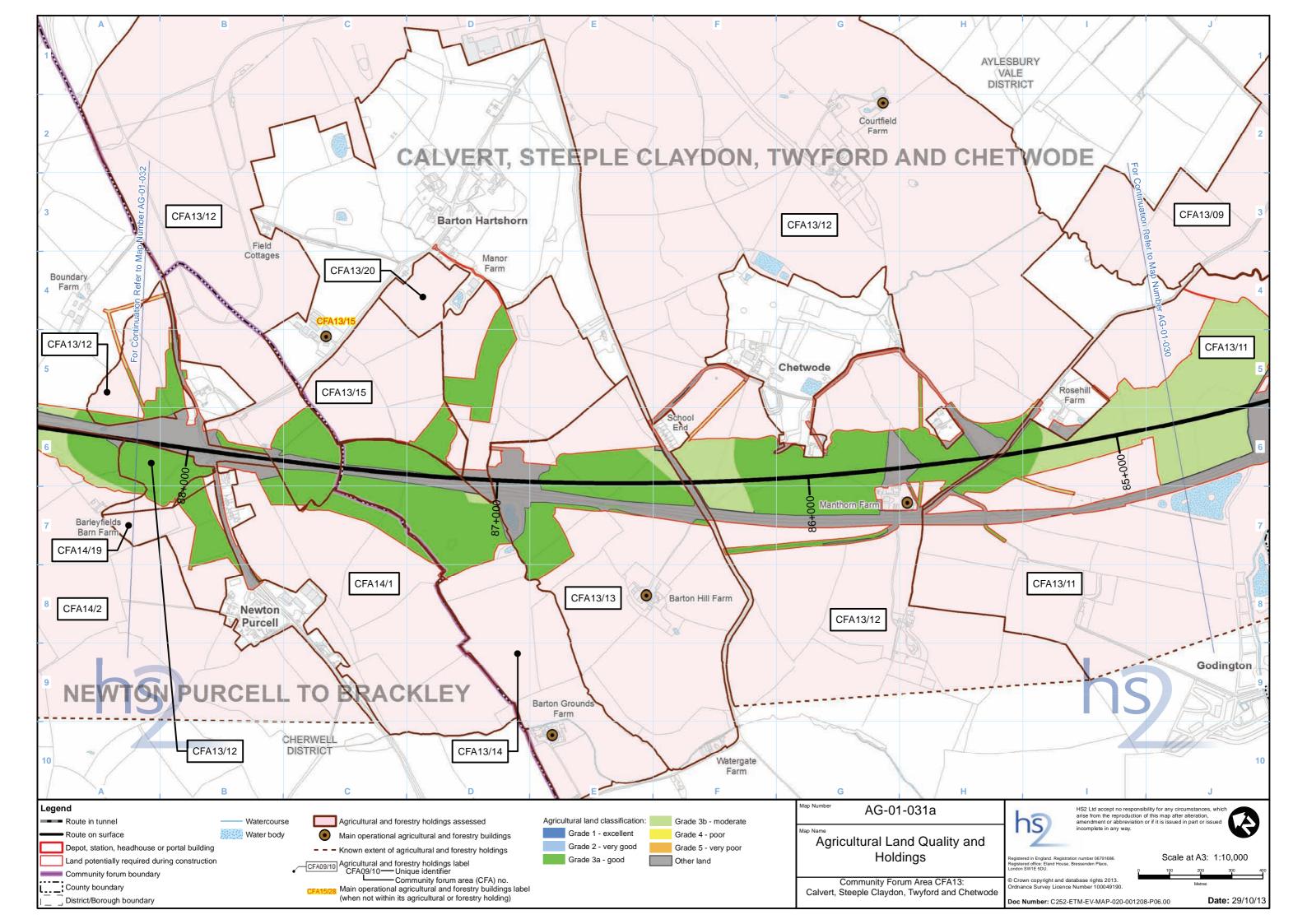


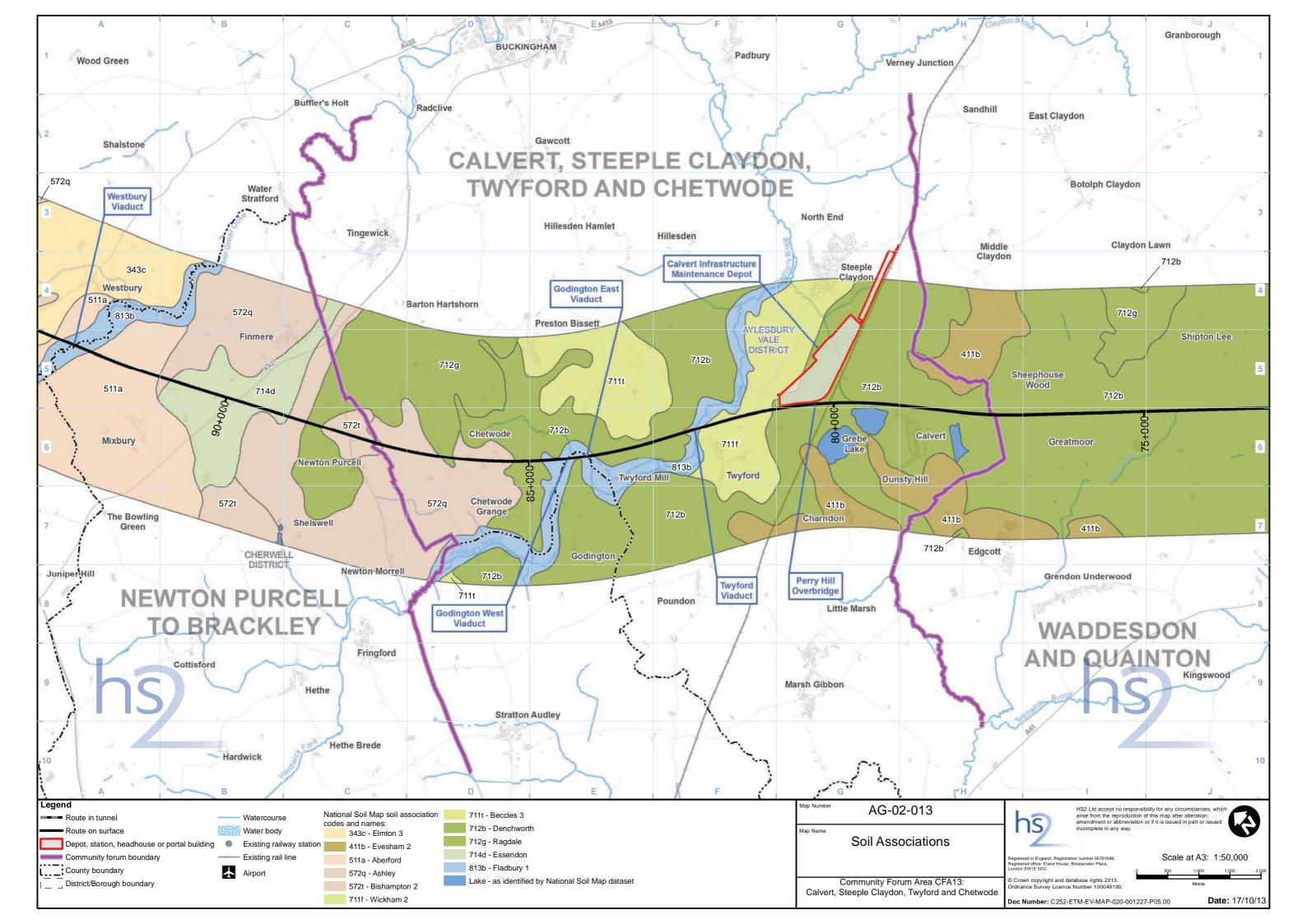










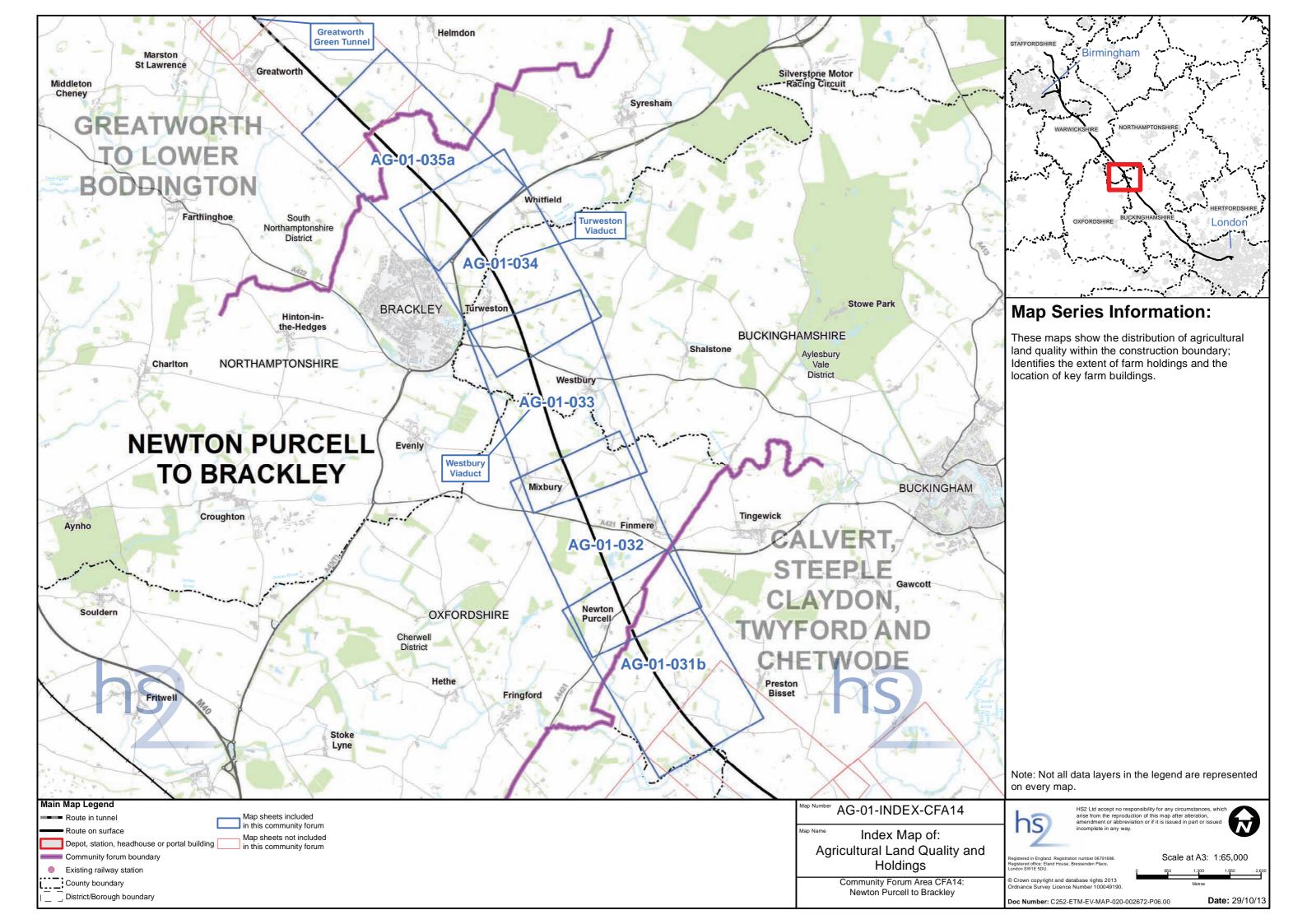


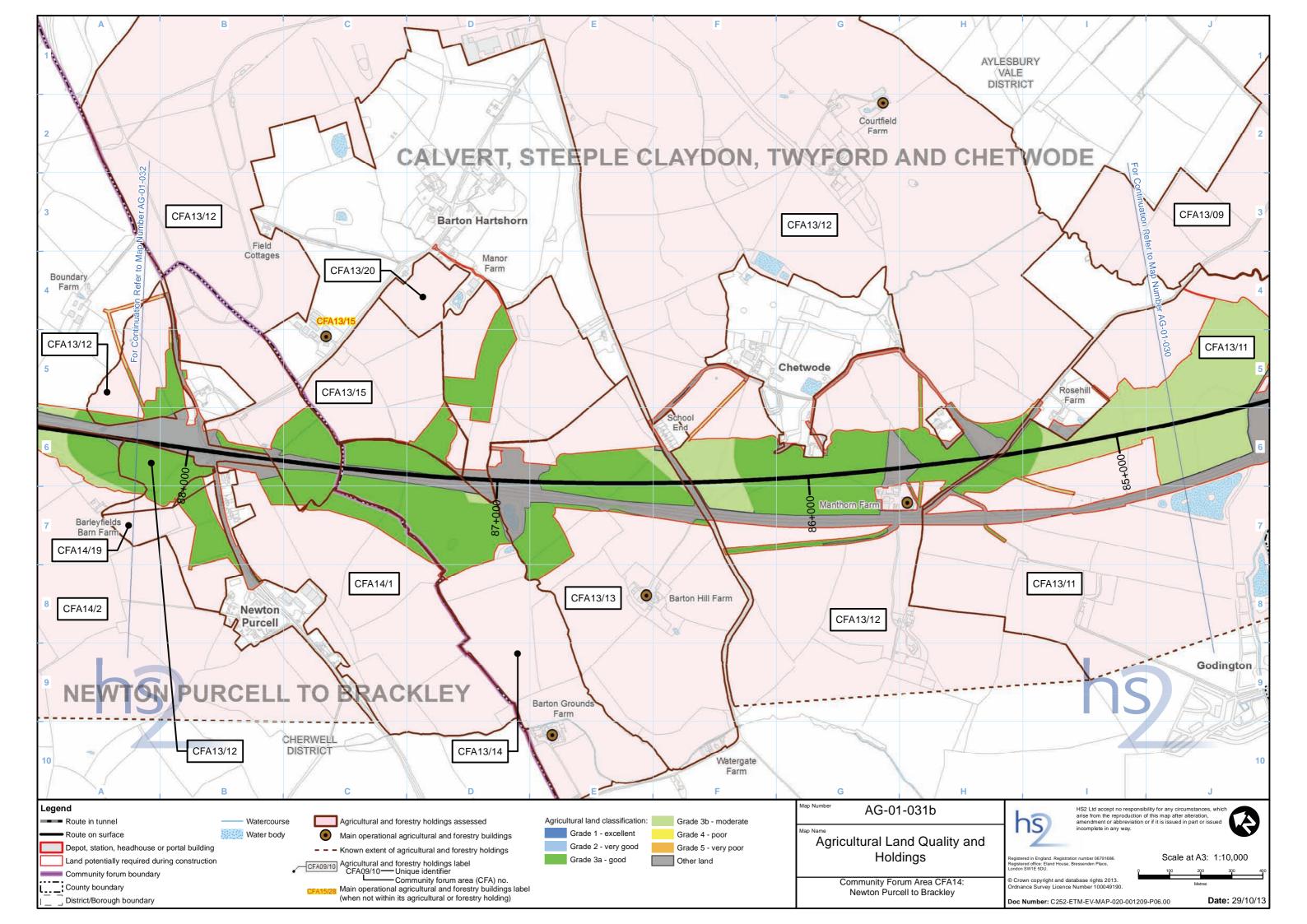
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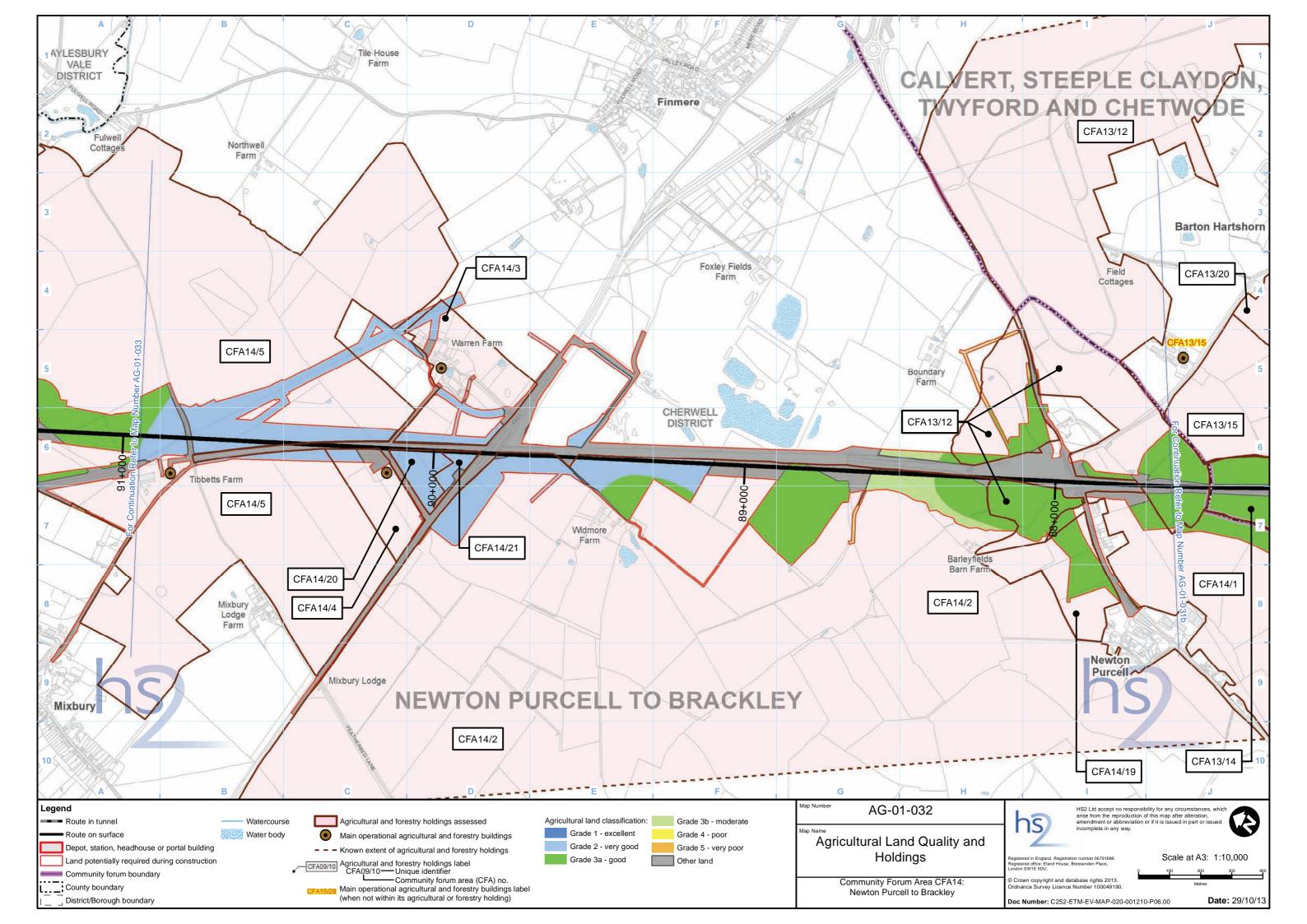


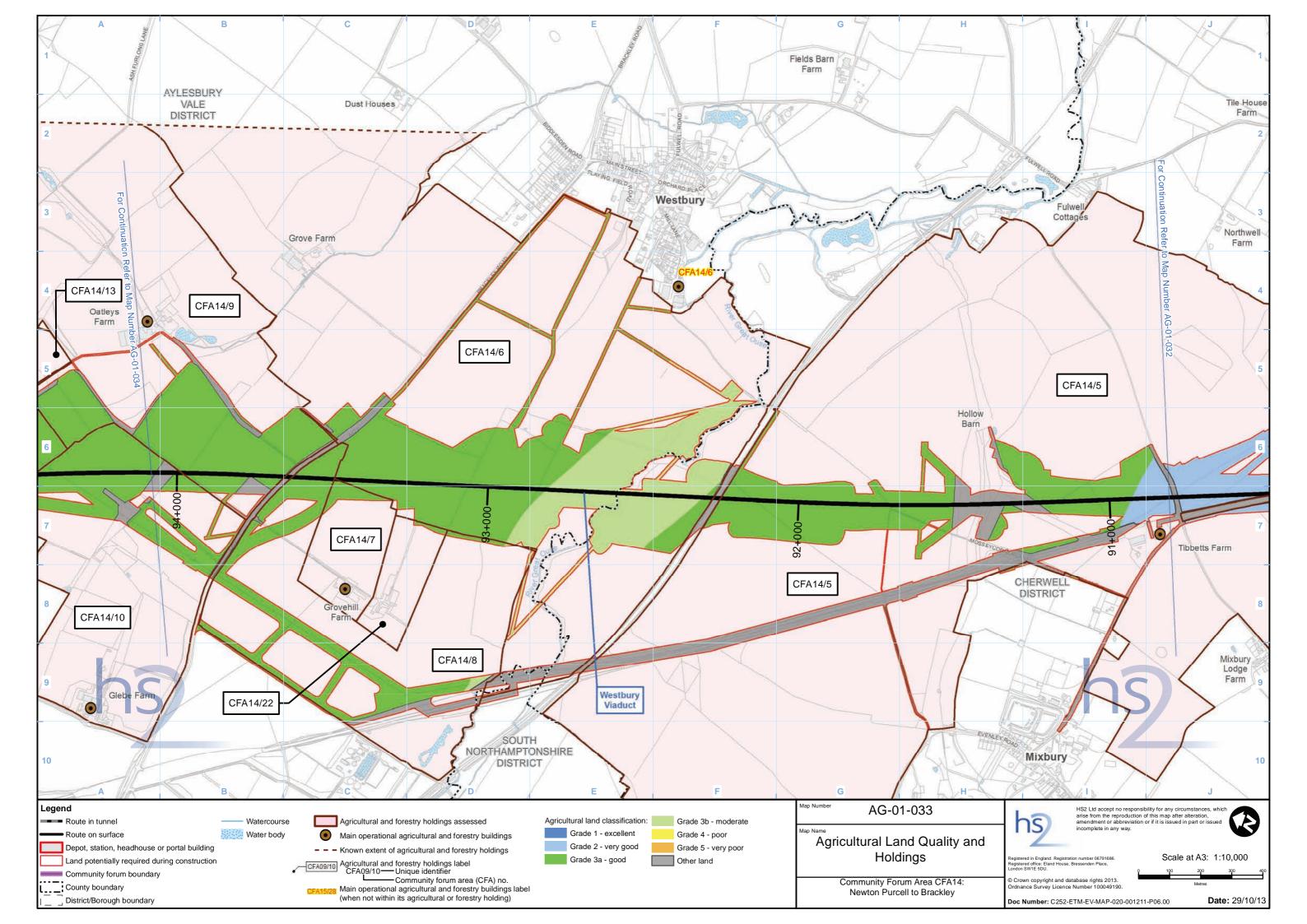
CFA14 | Newton Purcell to Brackley

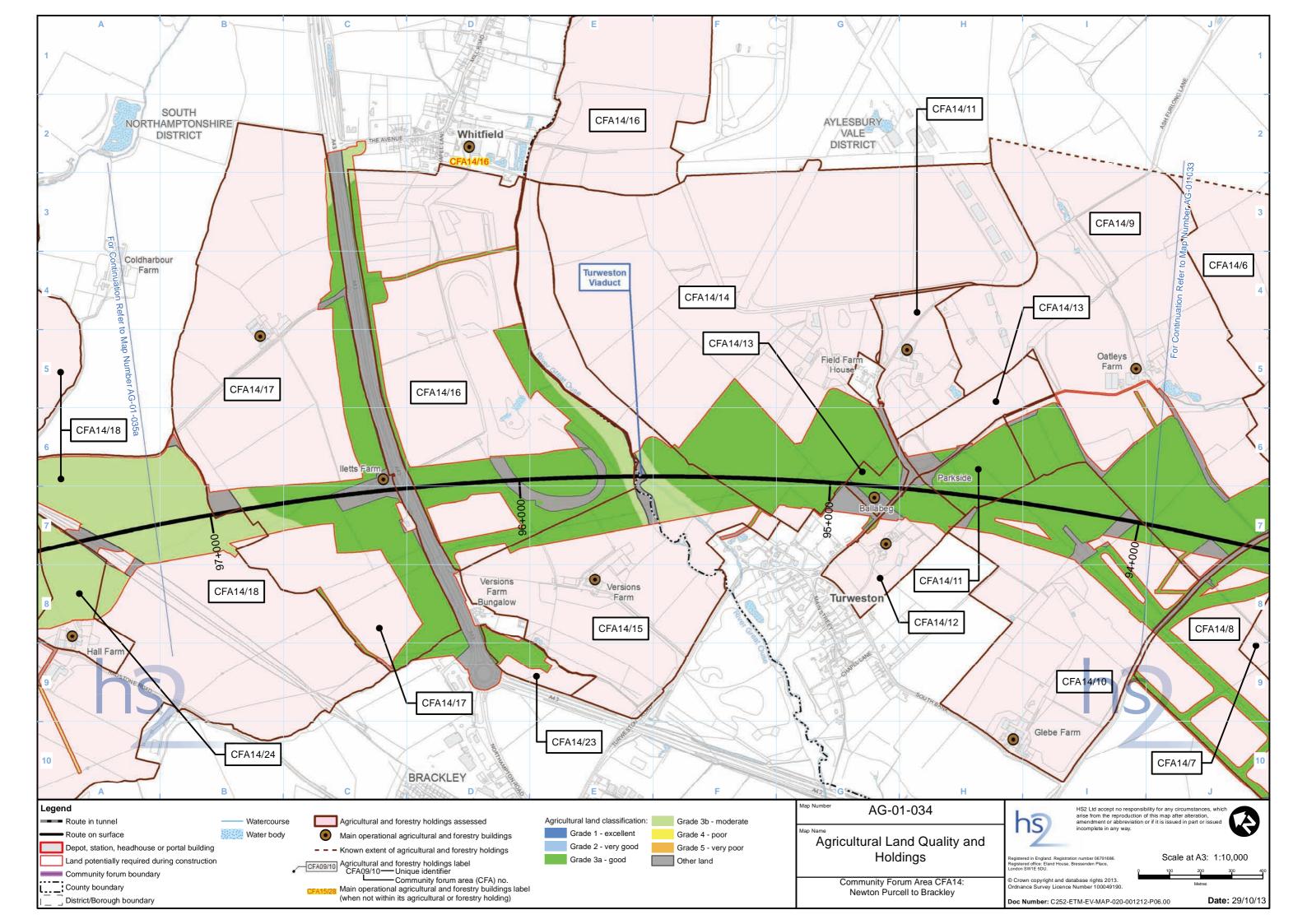
AG-01 - Agricultural Land Quality and Holdings

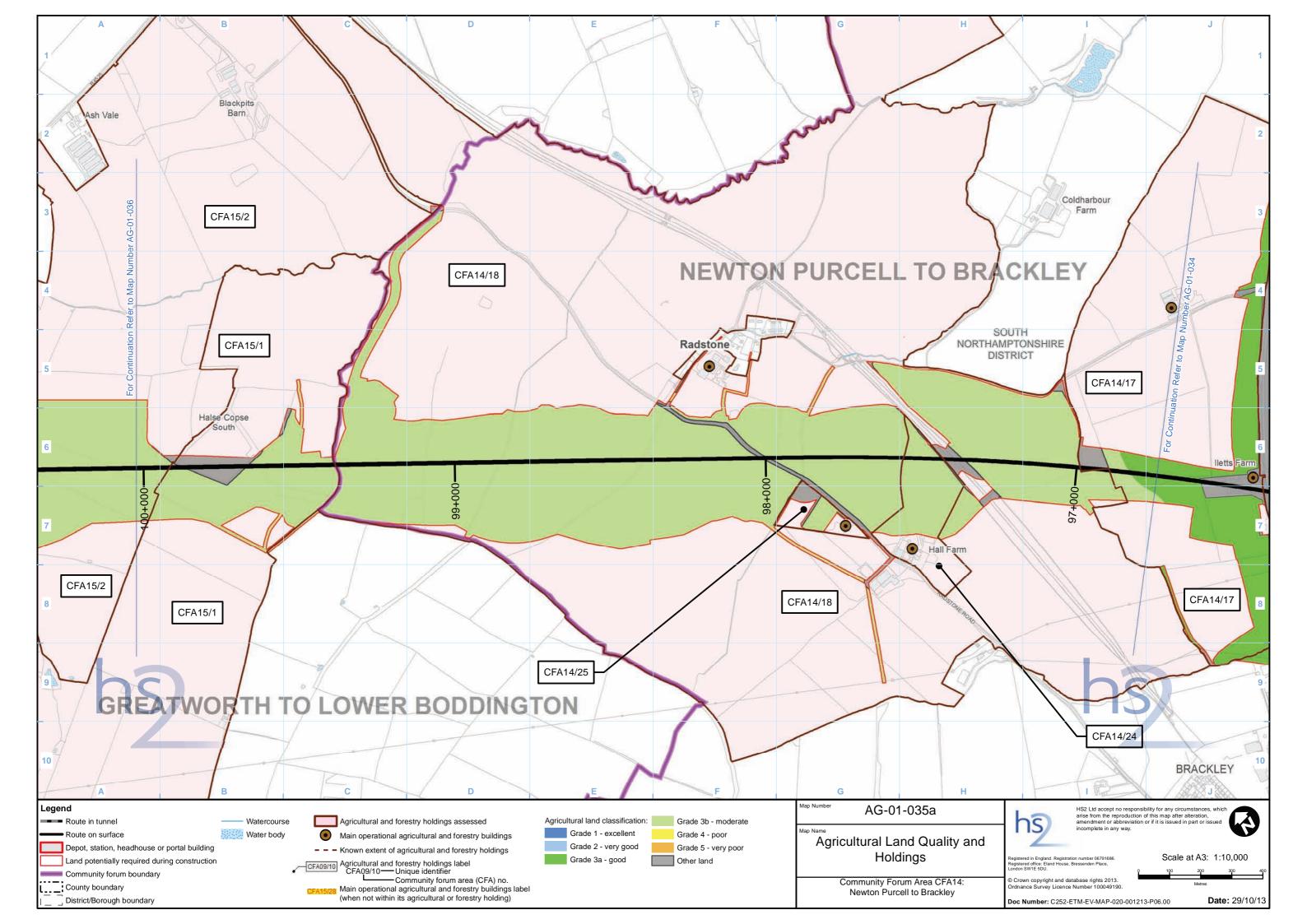


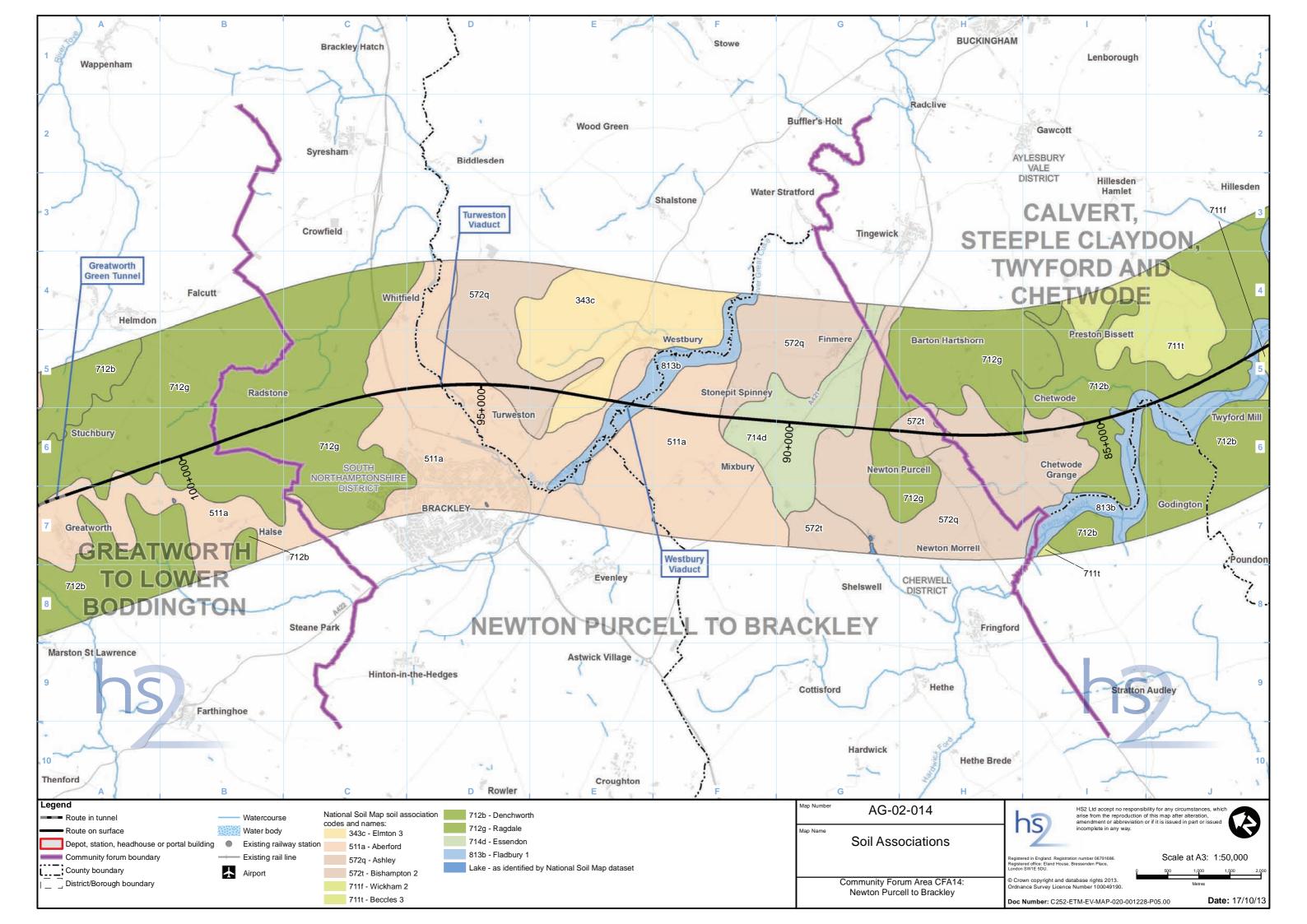








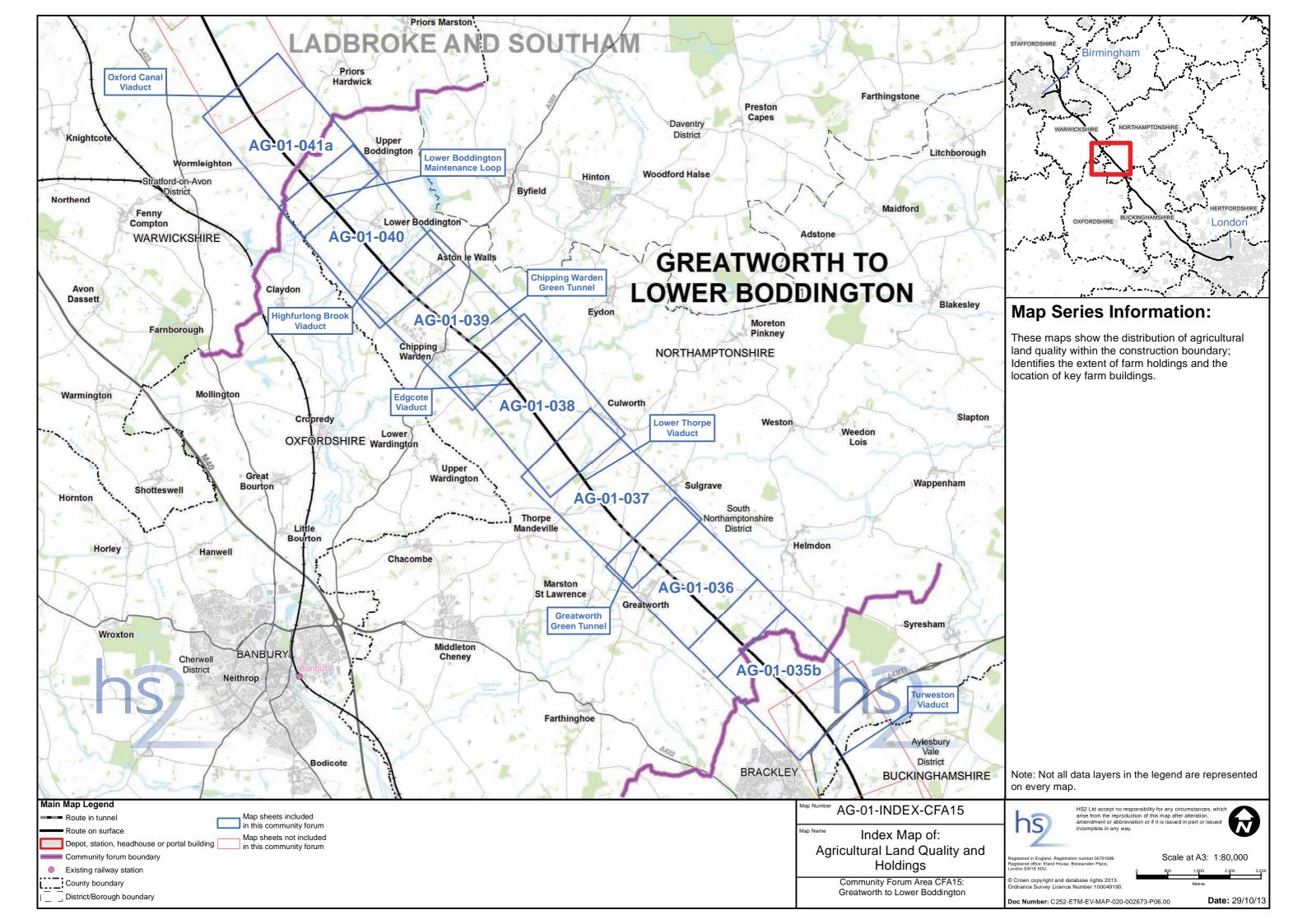


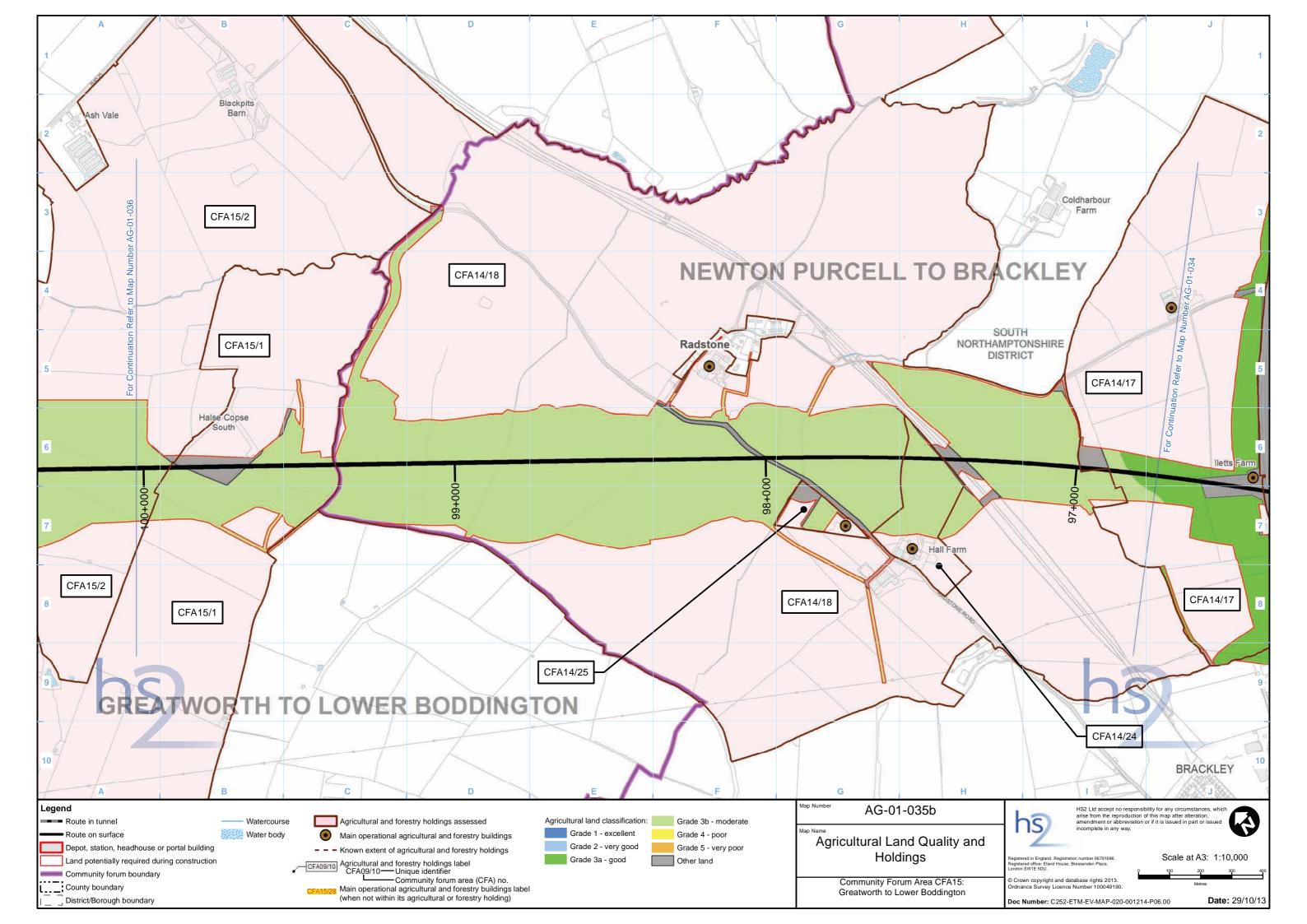


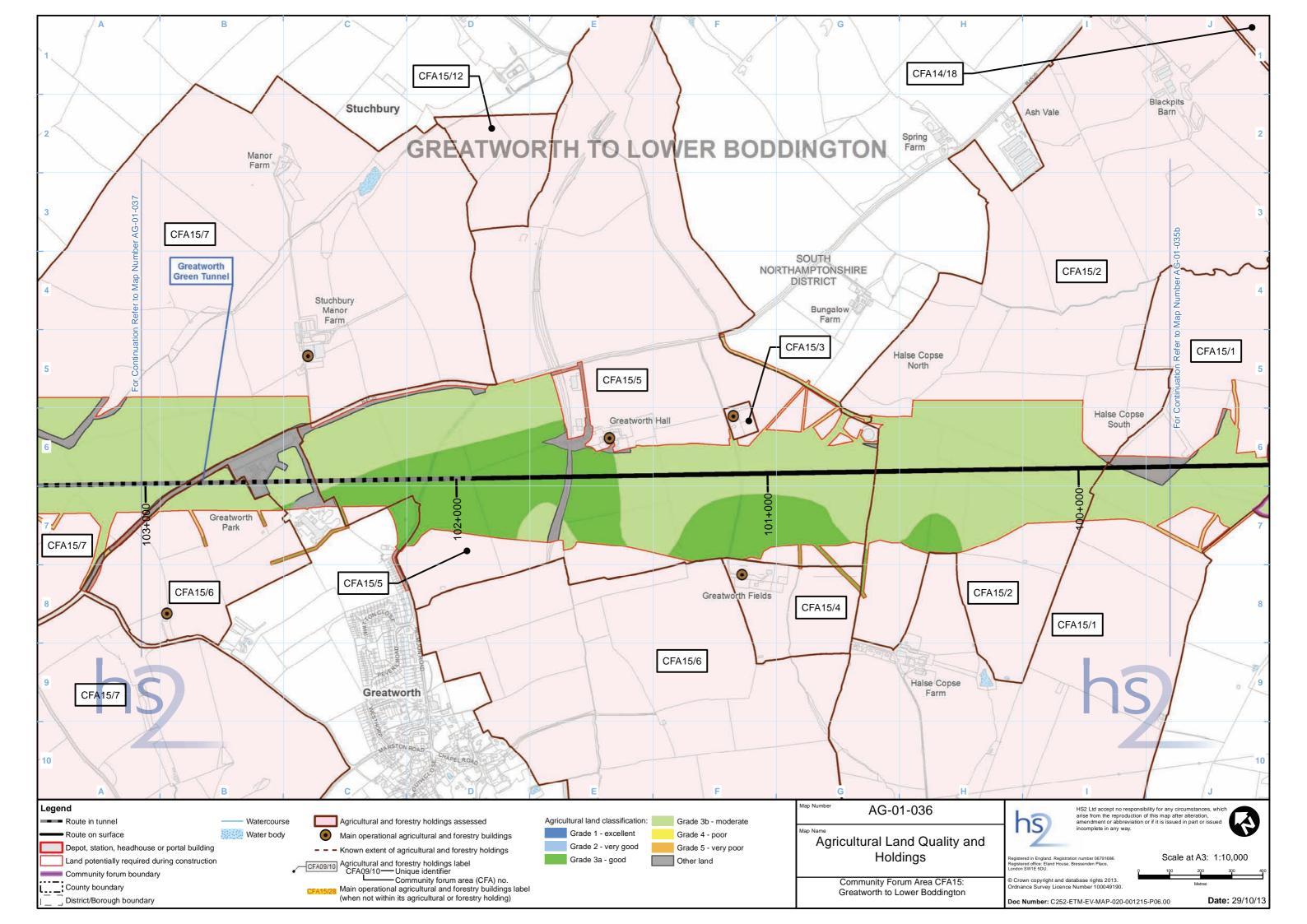


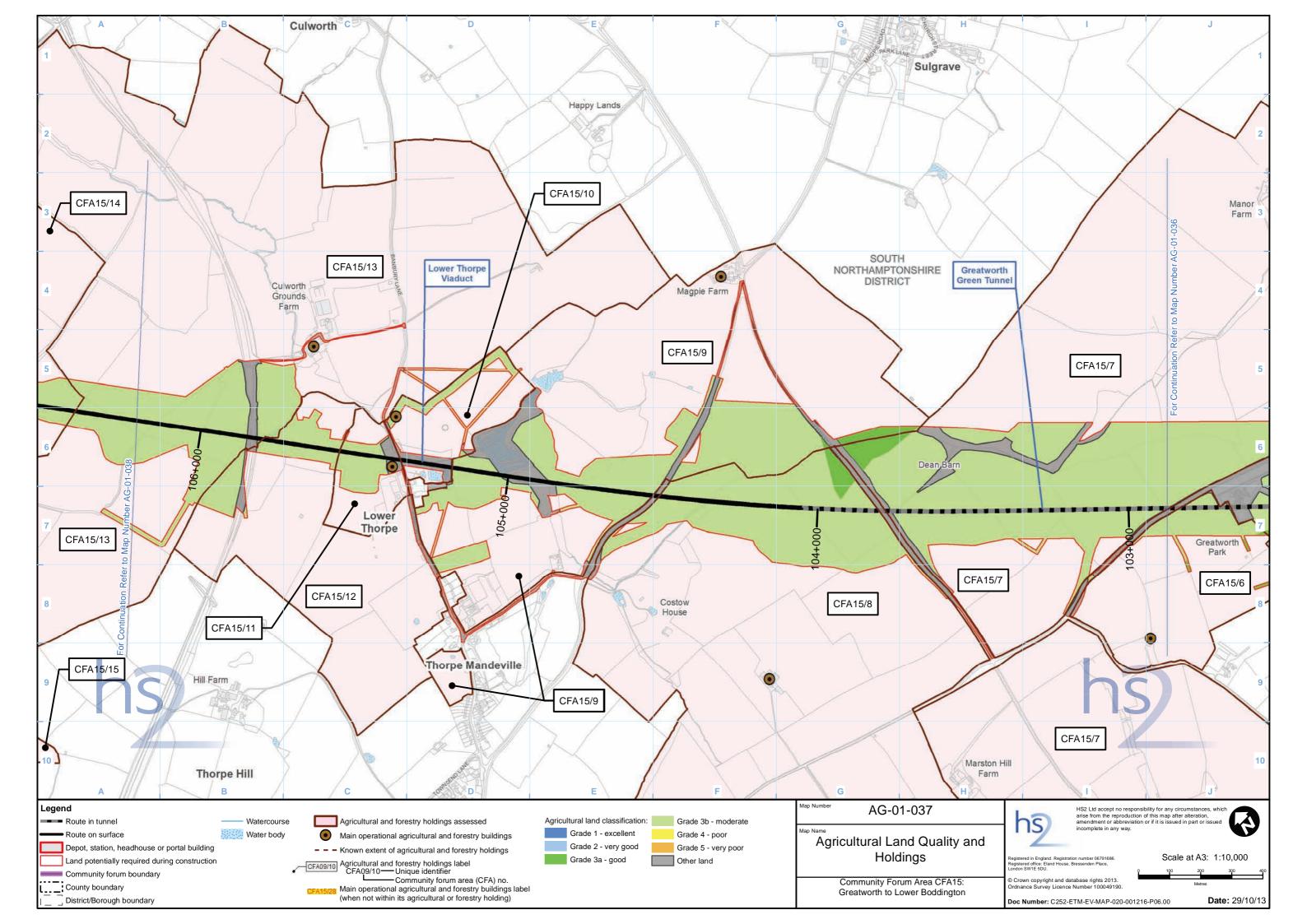
CFA<sub>15</sub> | Greatworth to Lower Boddington

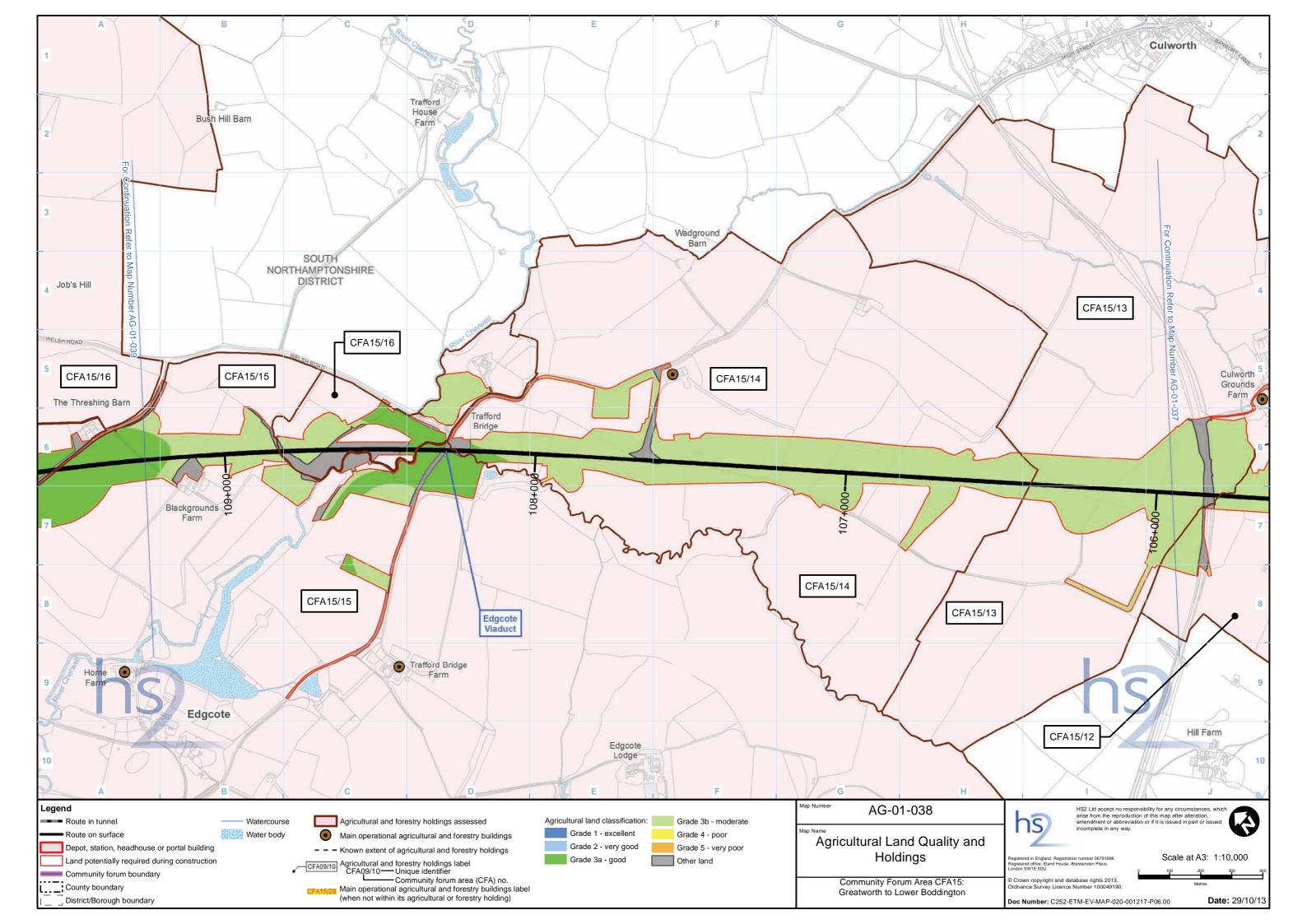
AG-01 - Agricultural Land Quality and Holdings

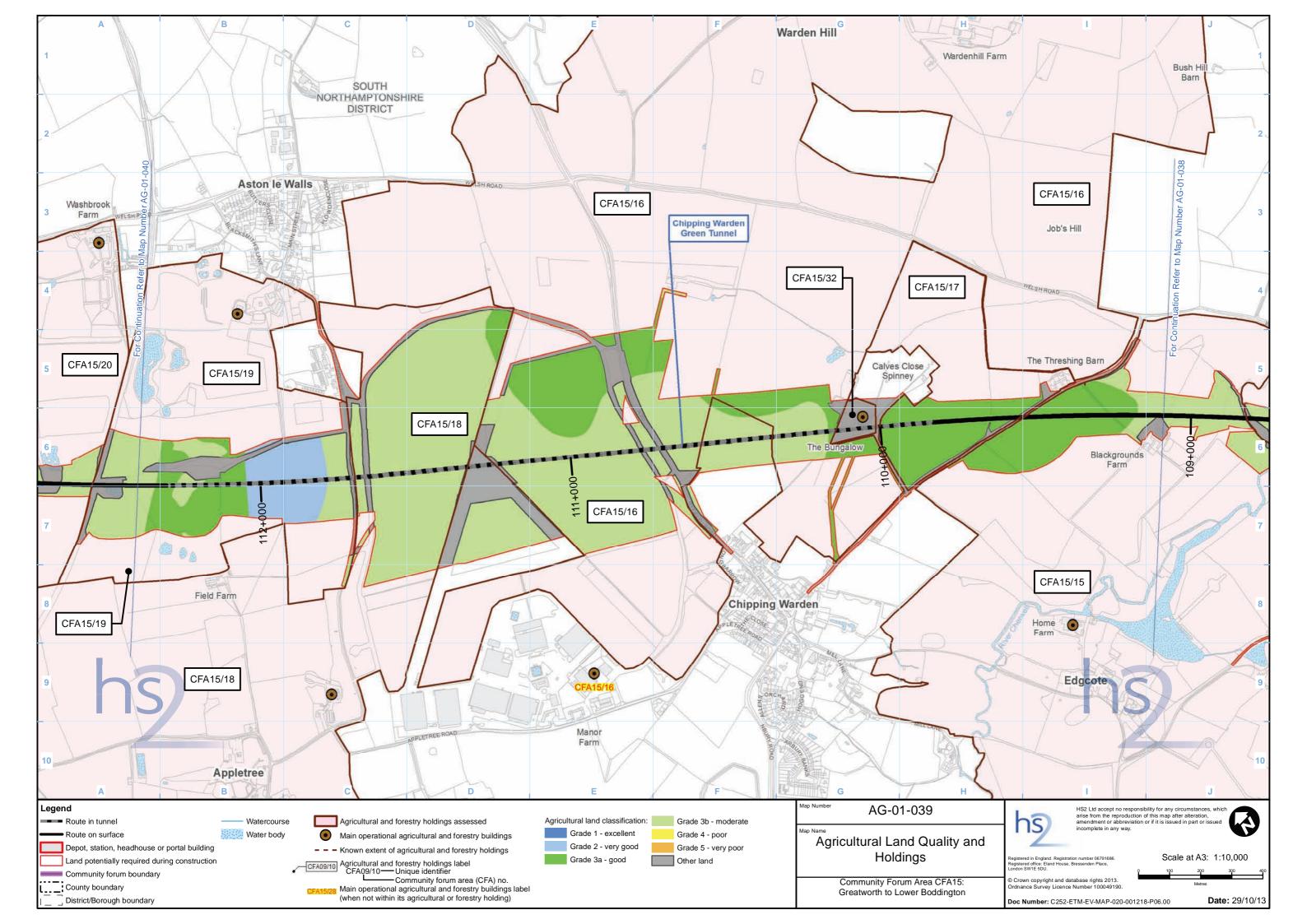


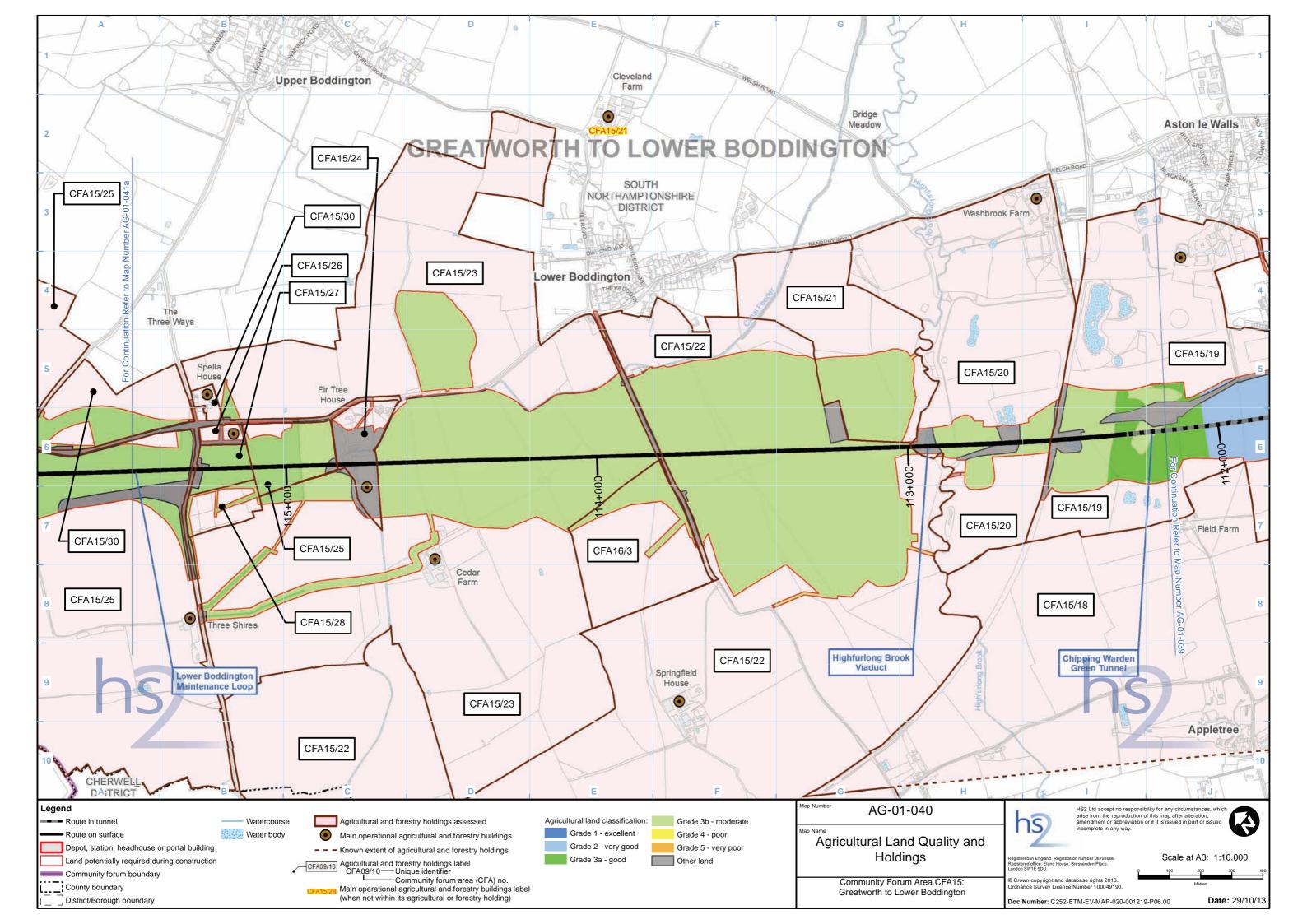


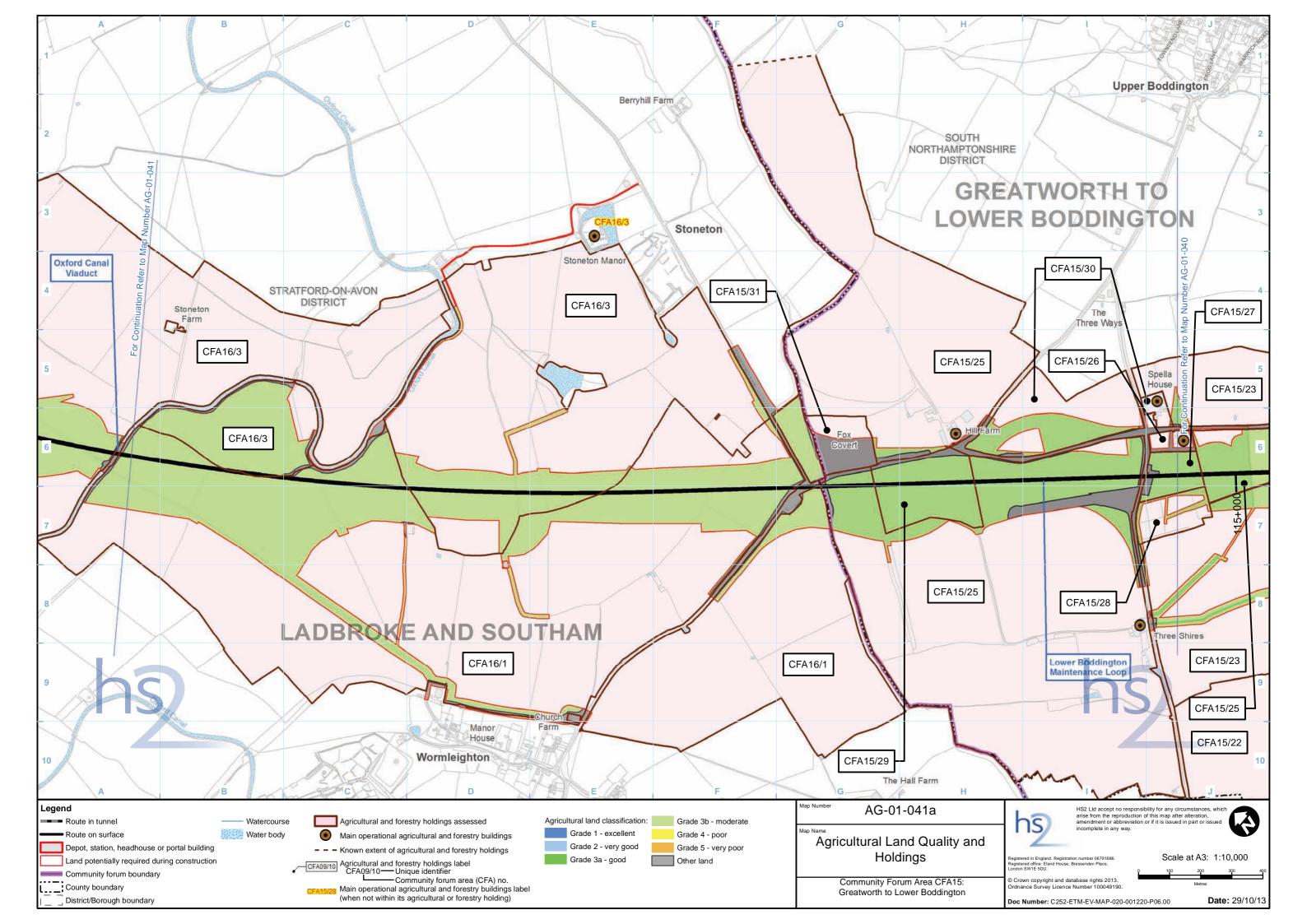


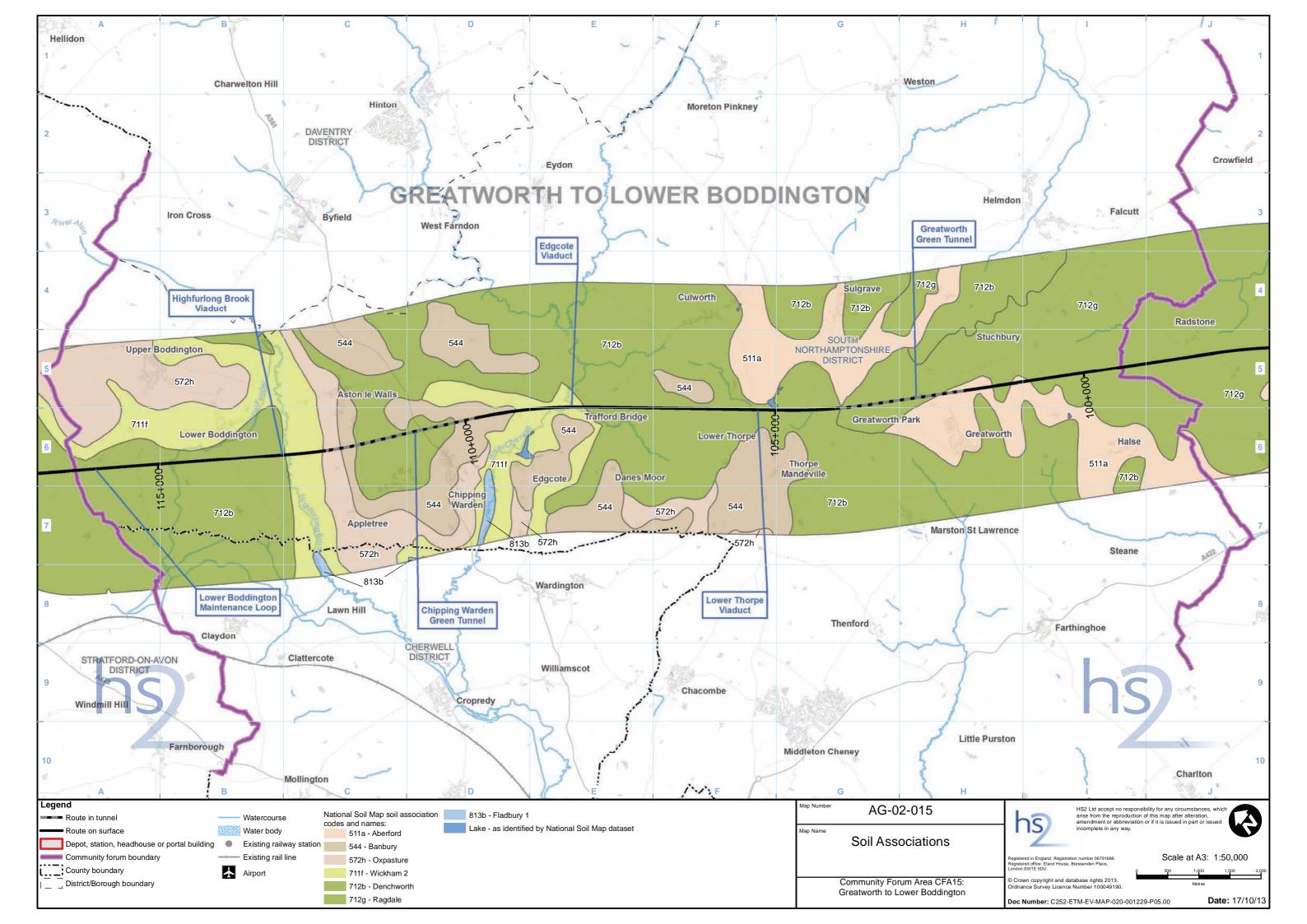








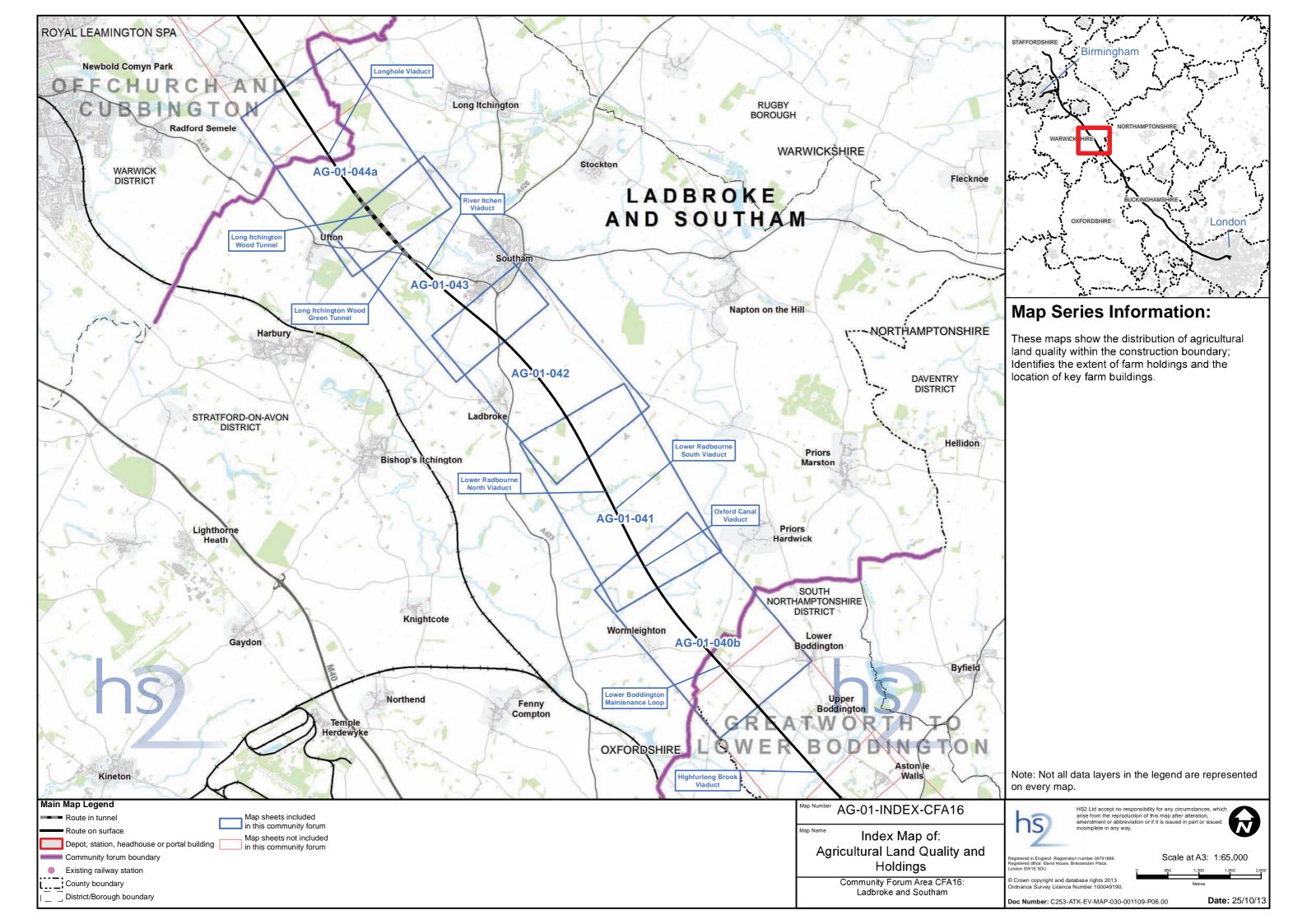


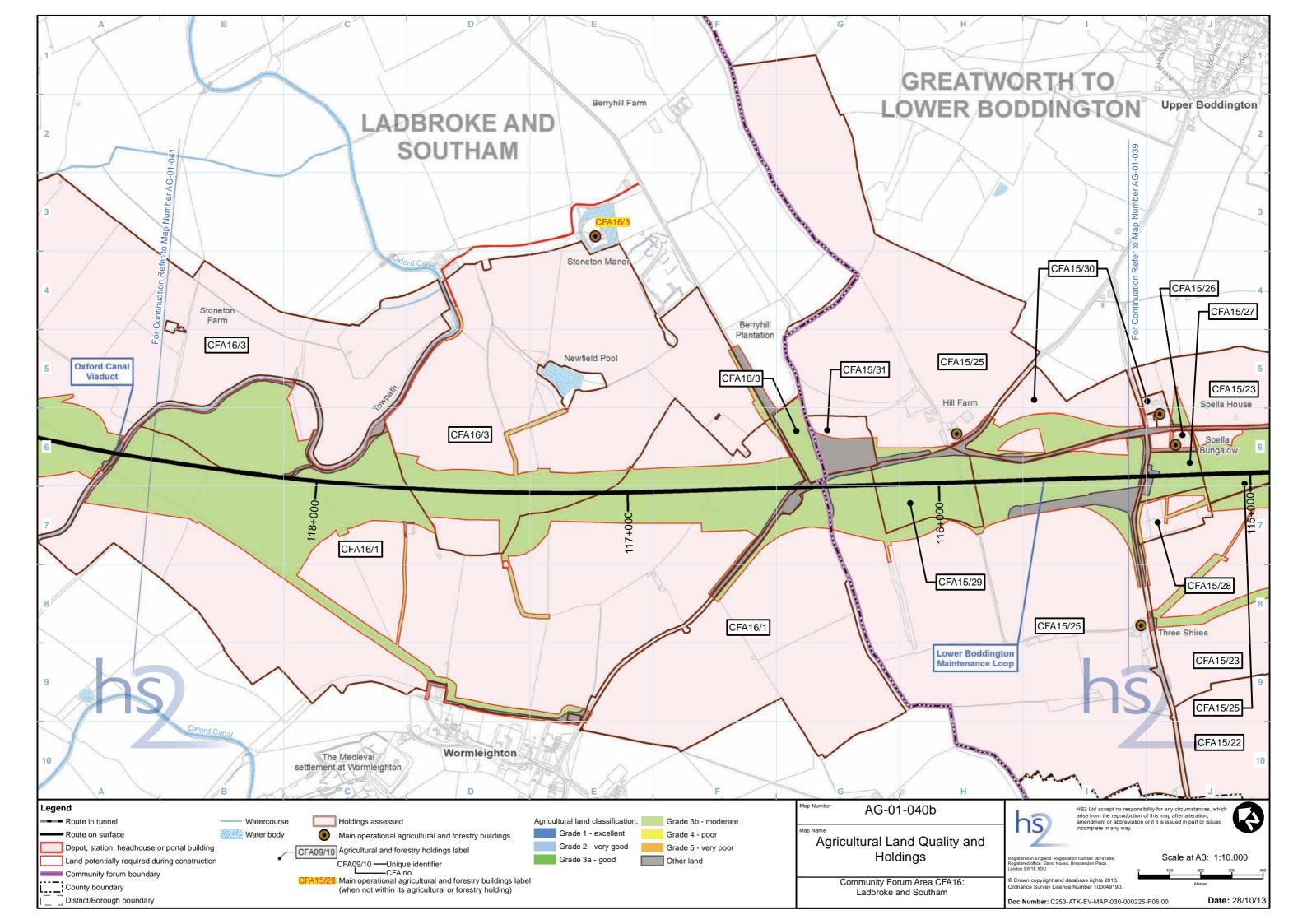


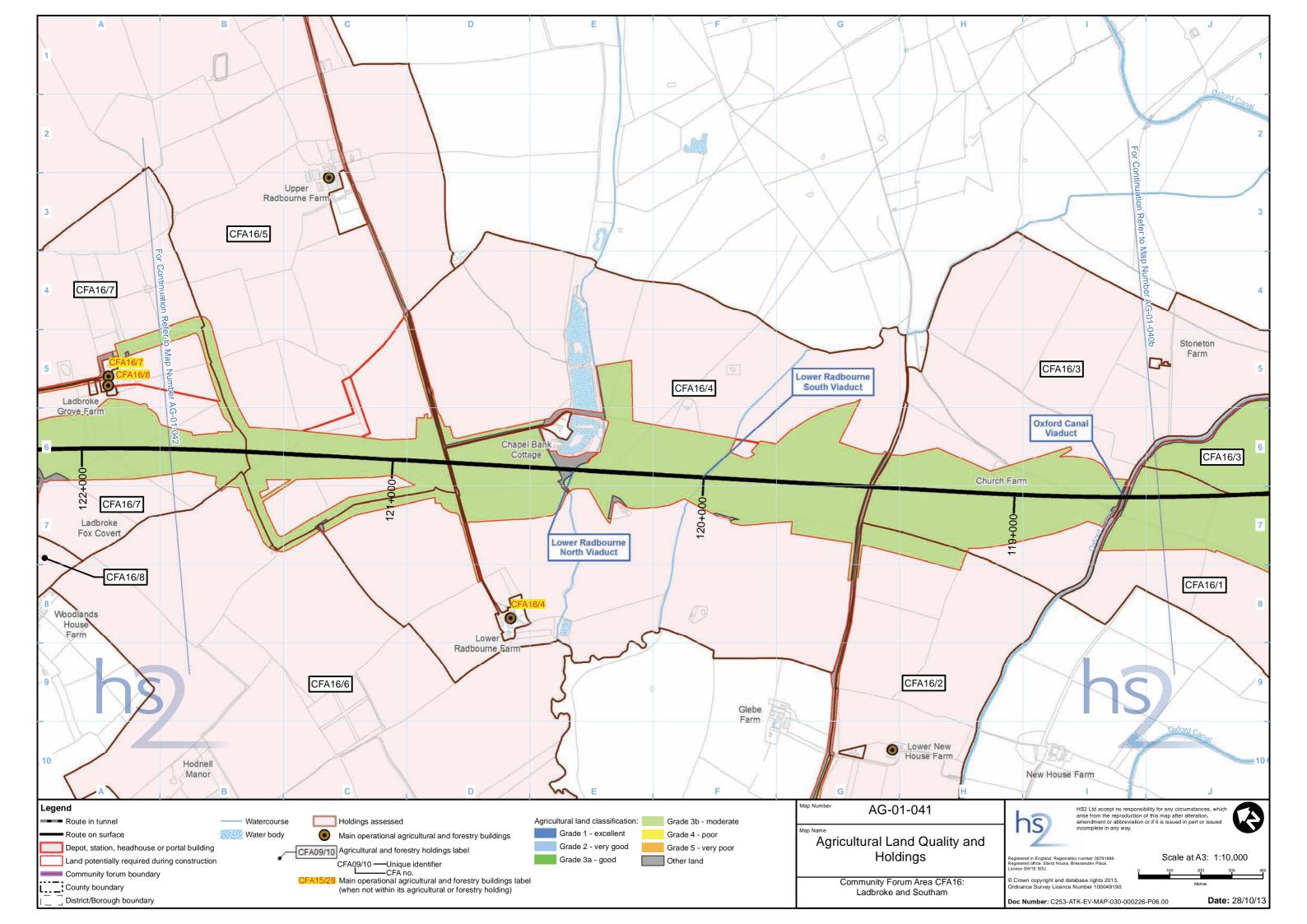


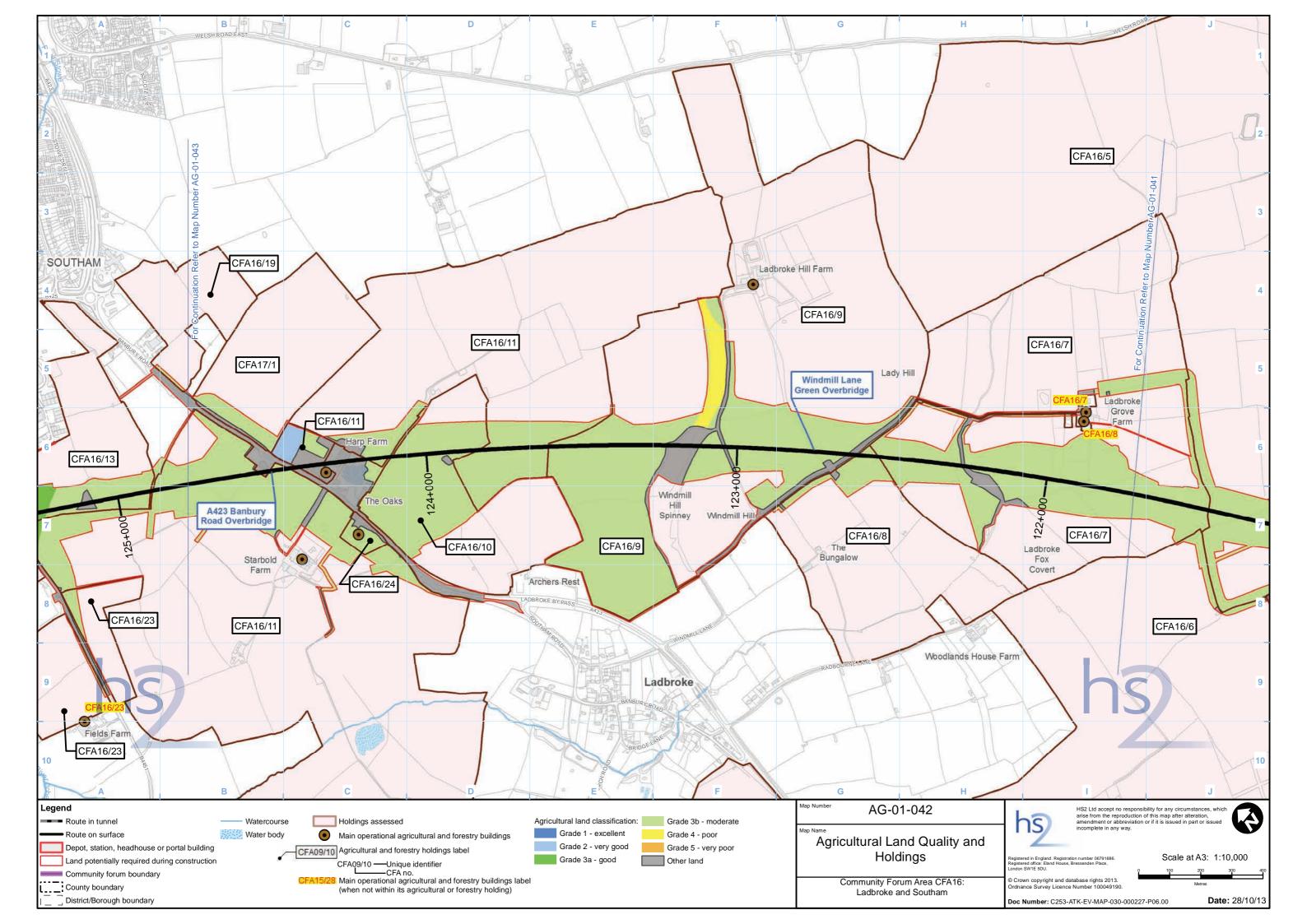
CFA16 | Ladbroke and Southam

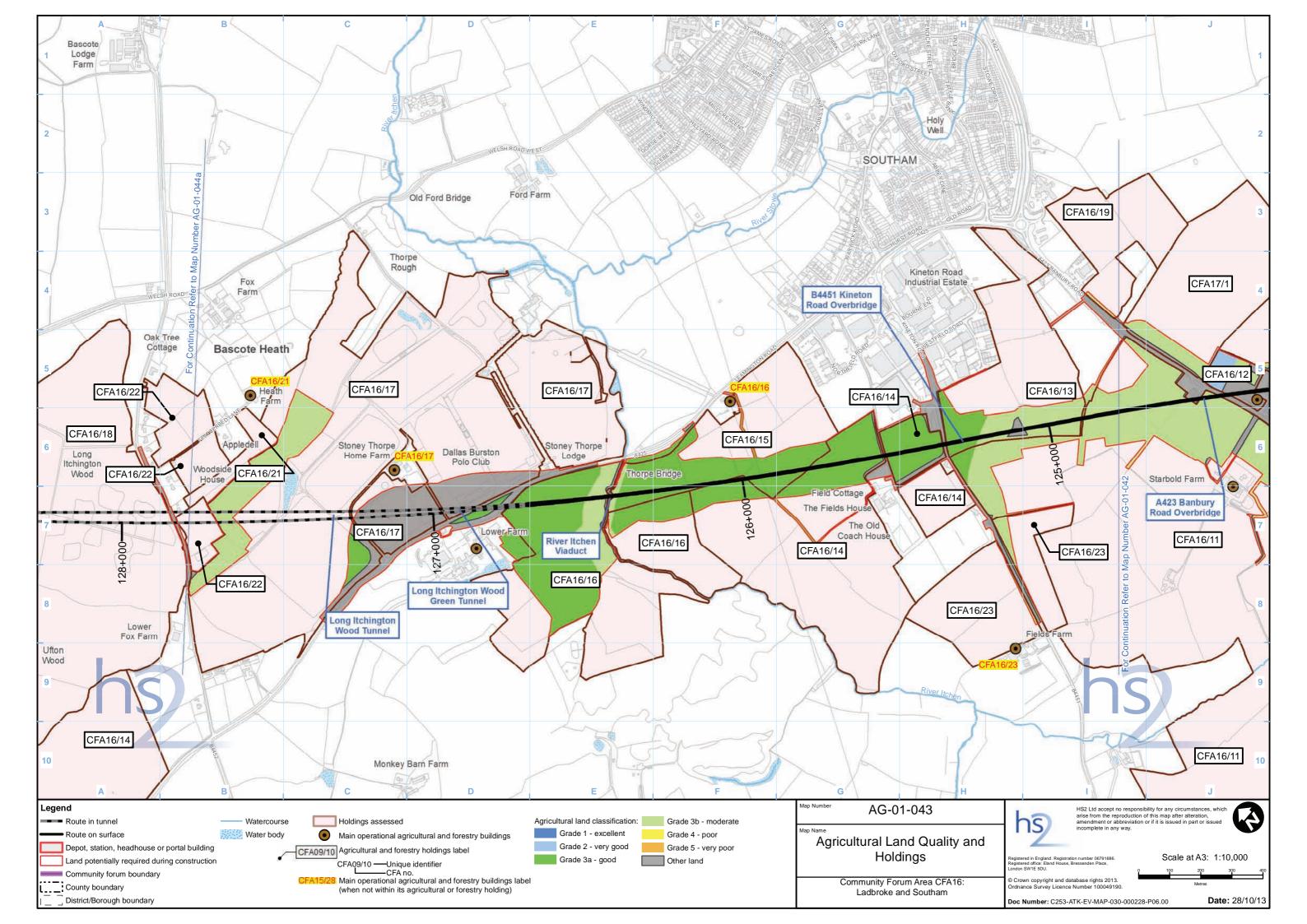
AG-01 - Agricultural Land Quality and Holdings

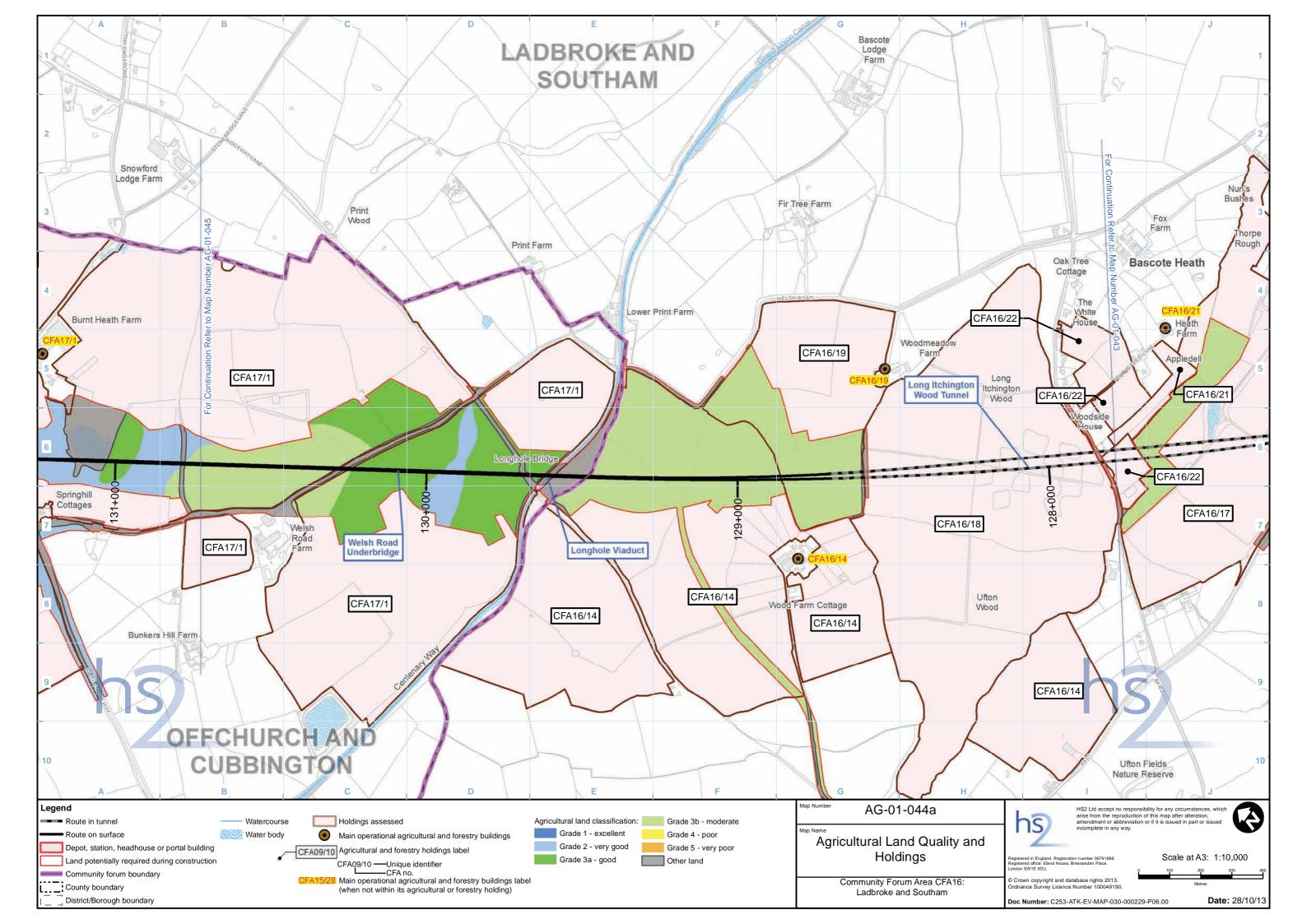


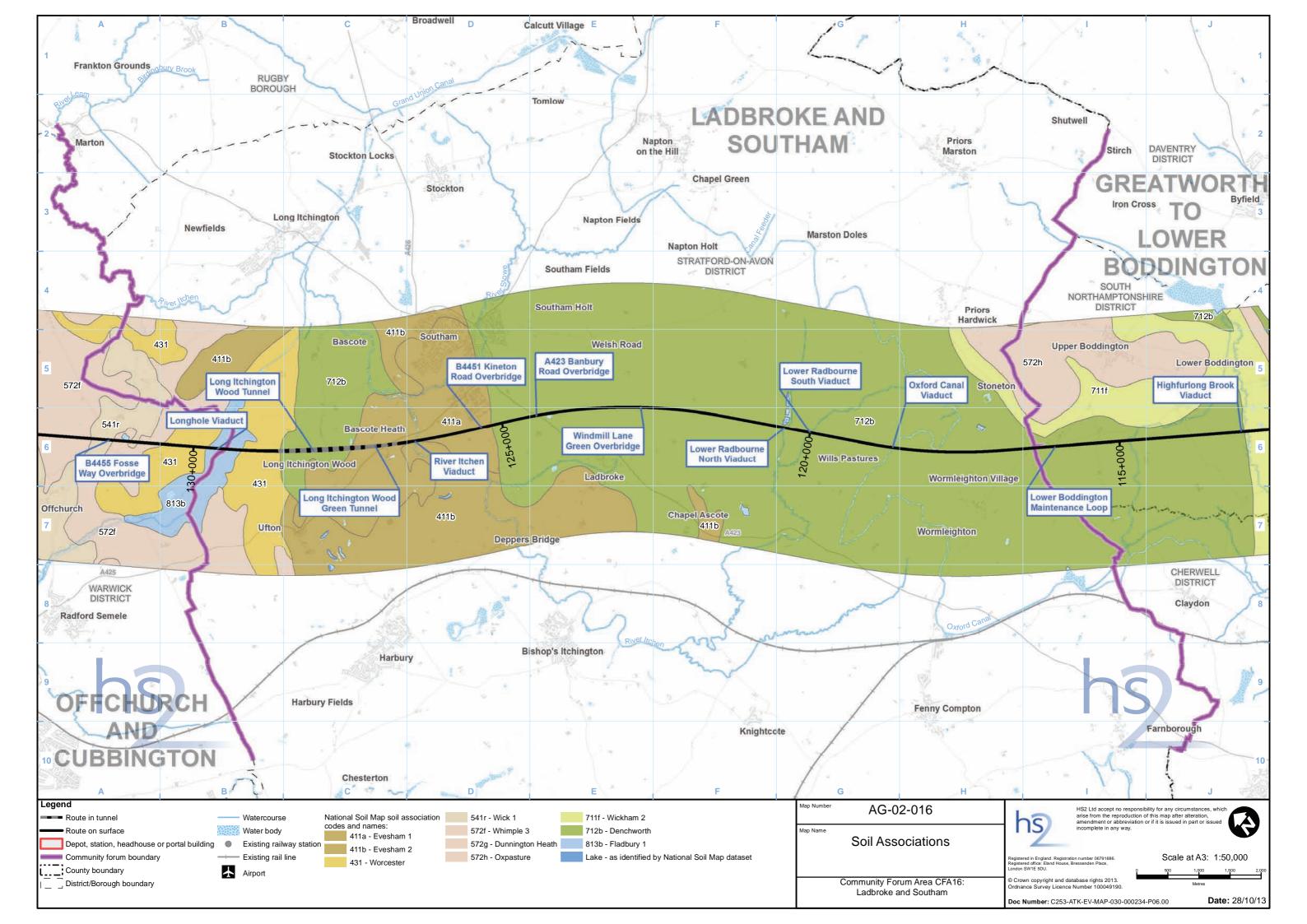








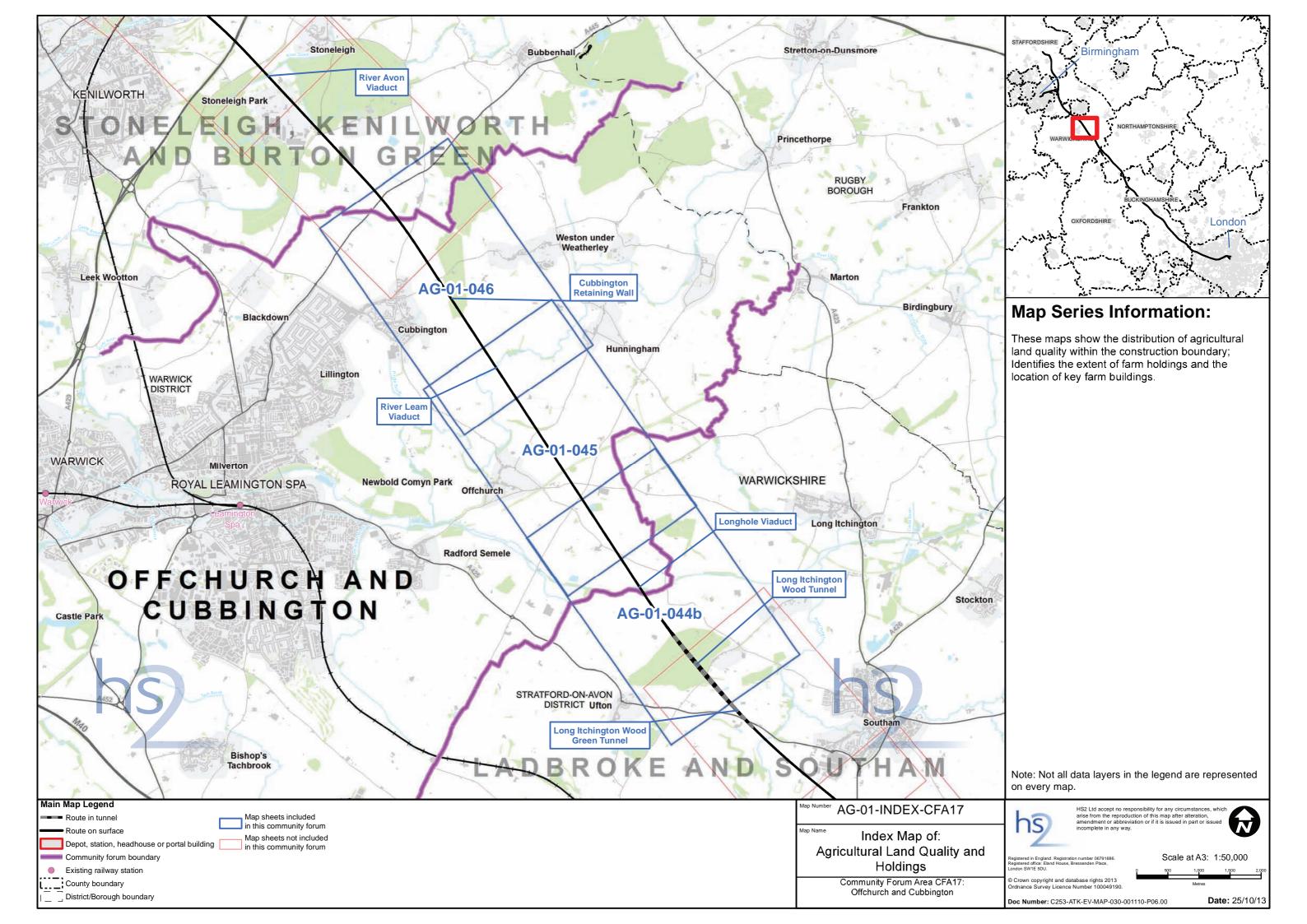


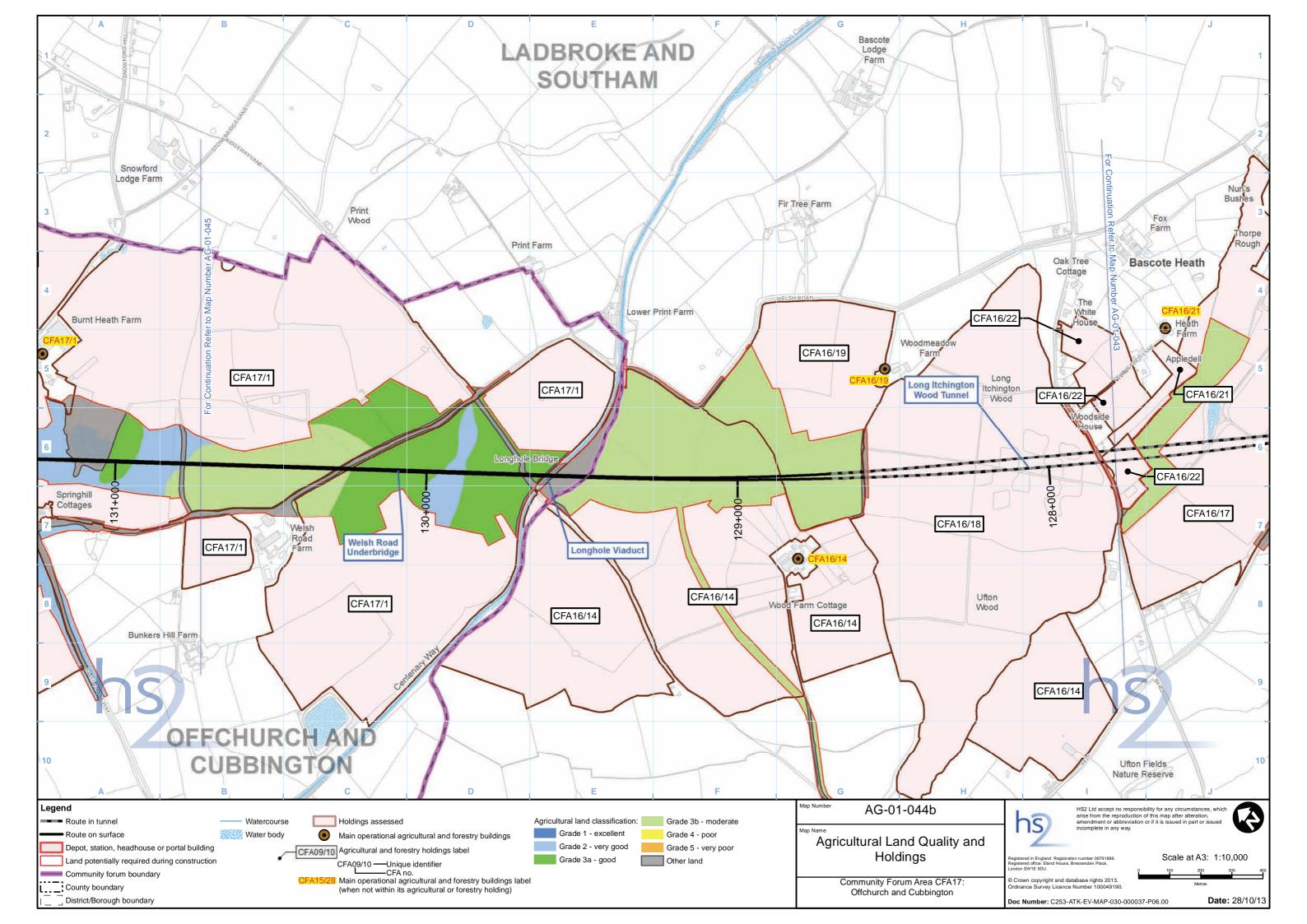


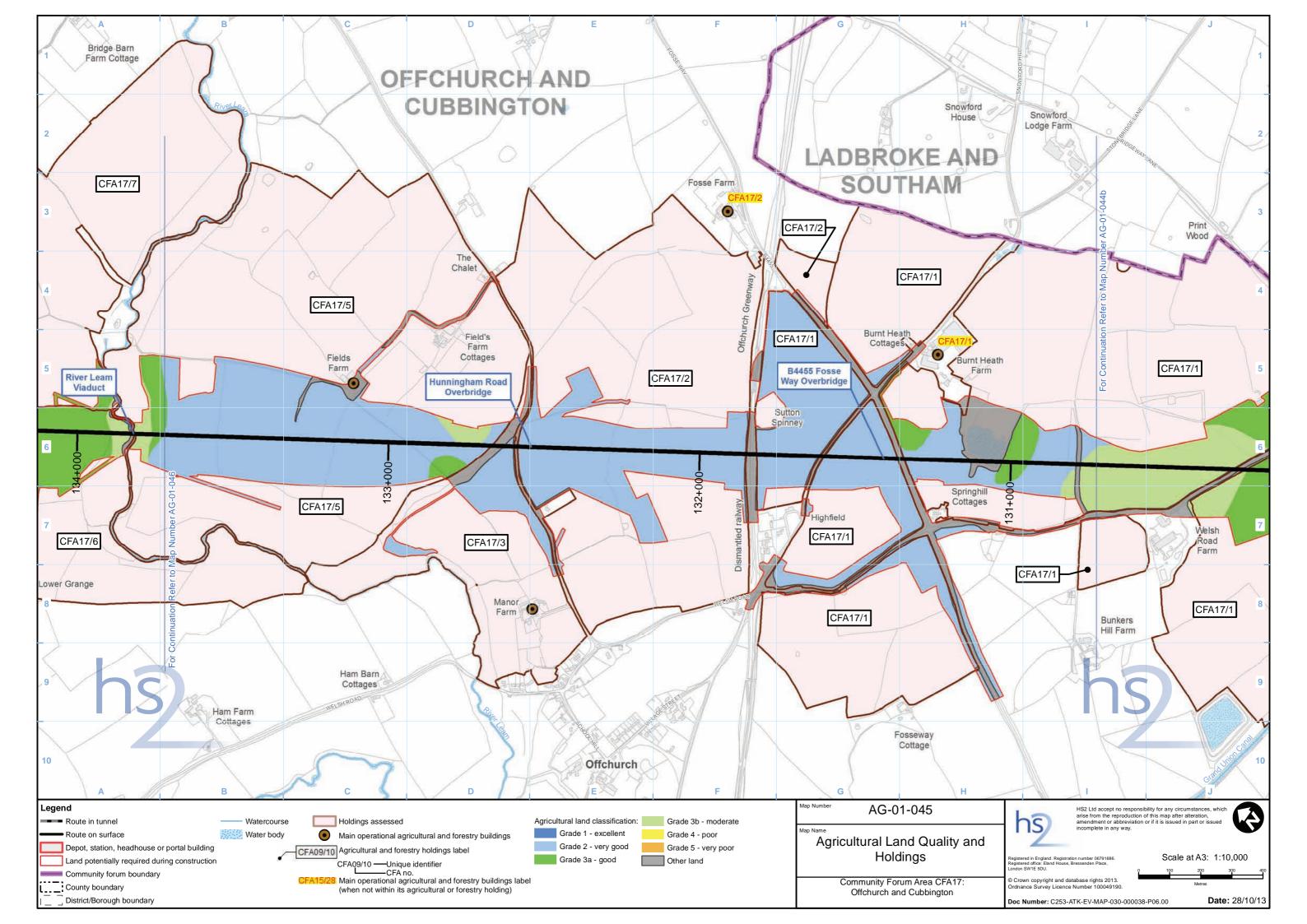


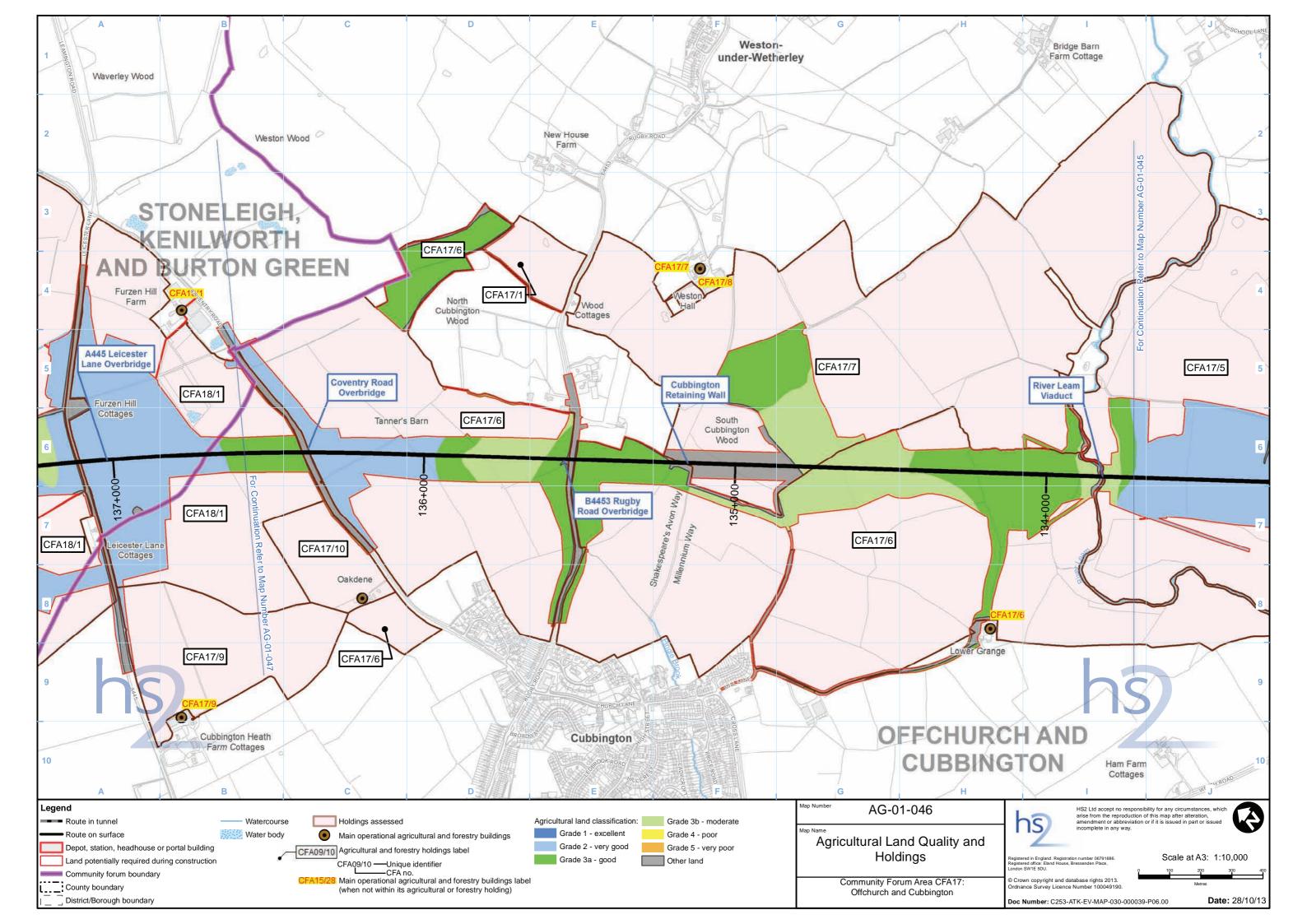
CFA<sub>17</sub> Offchurch and Cubbington

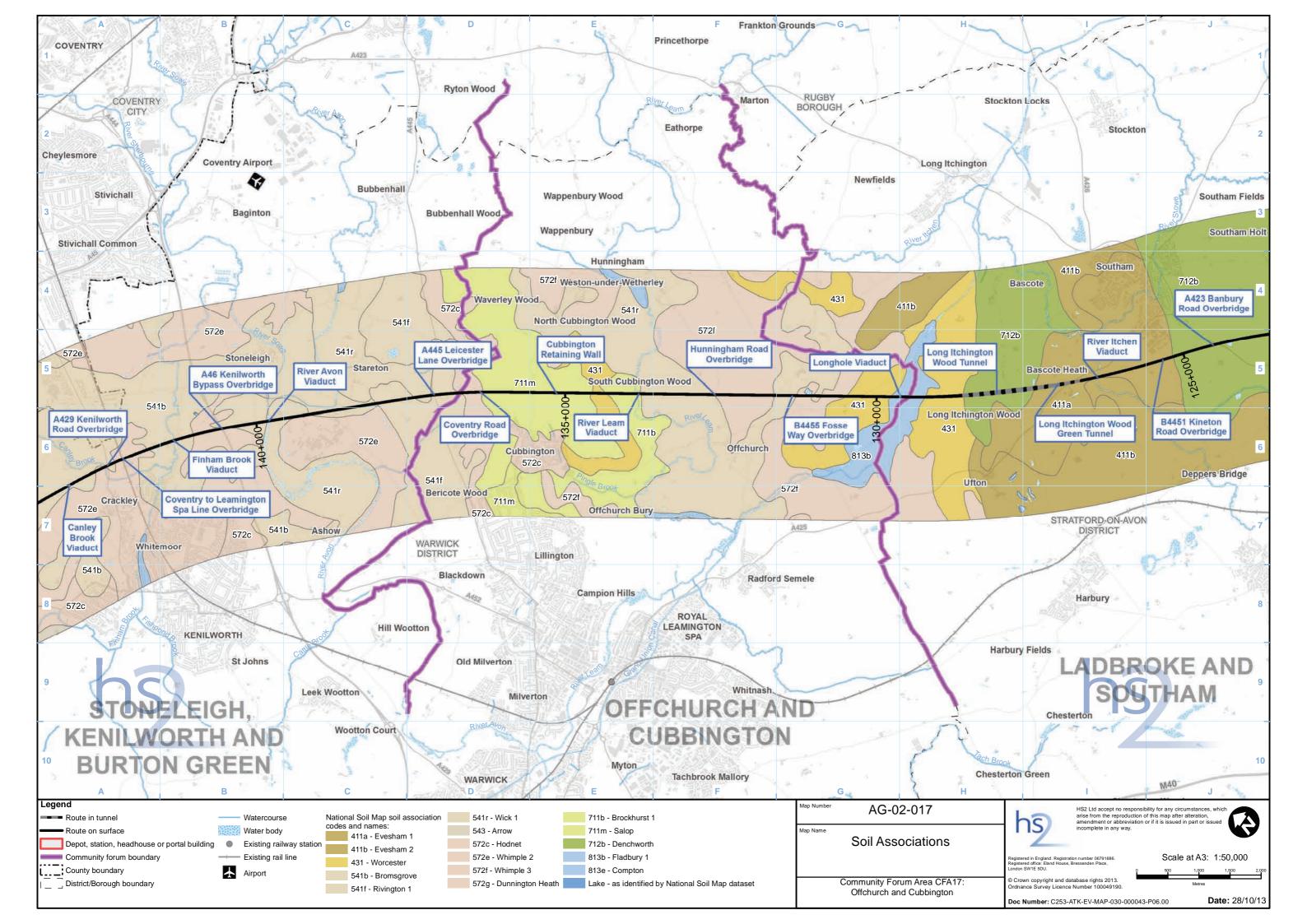
AG-01 - Agricultural Land Quality and Holdings







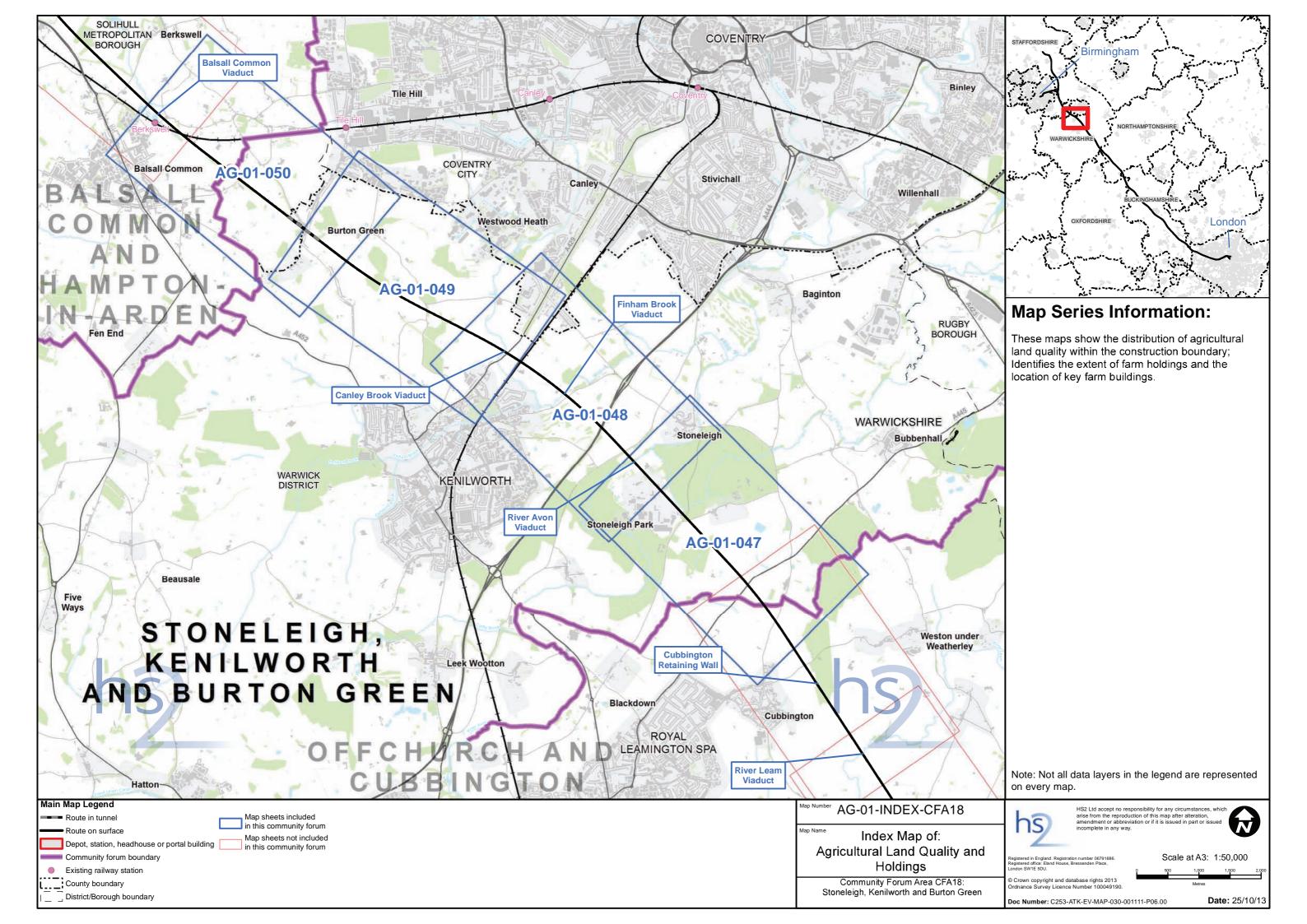


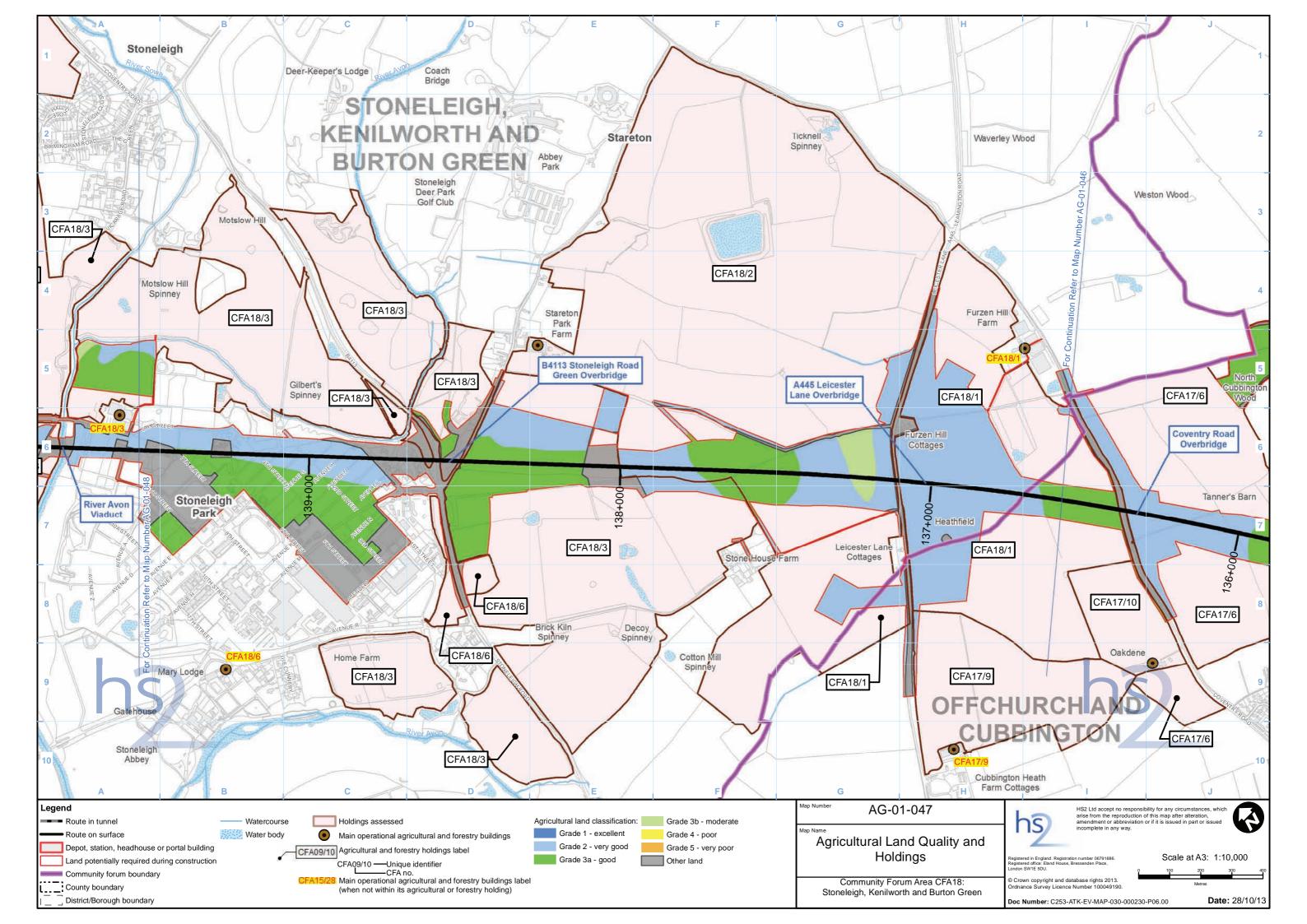


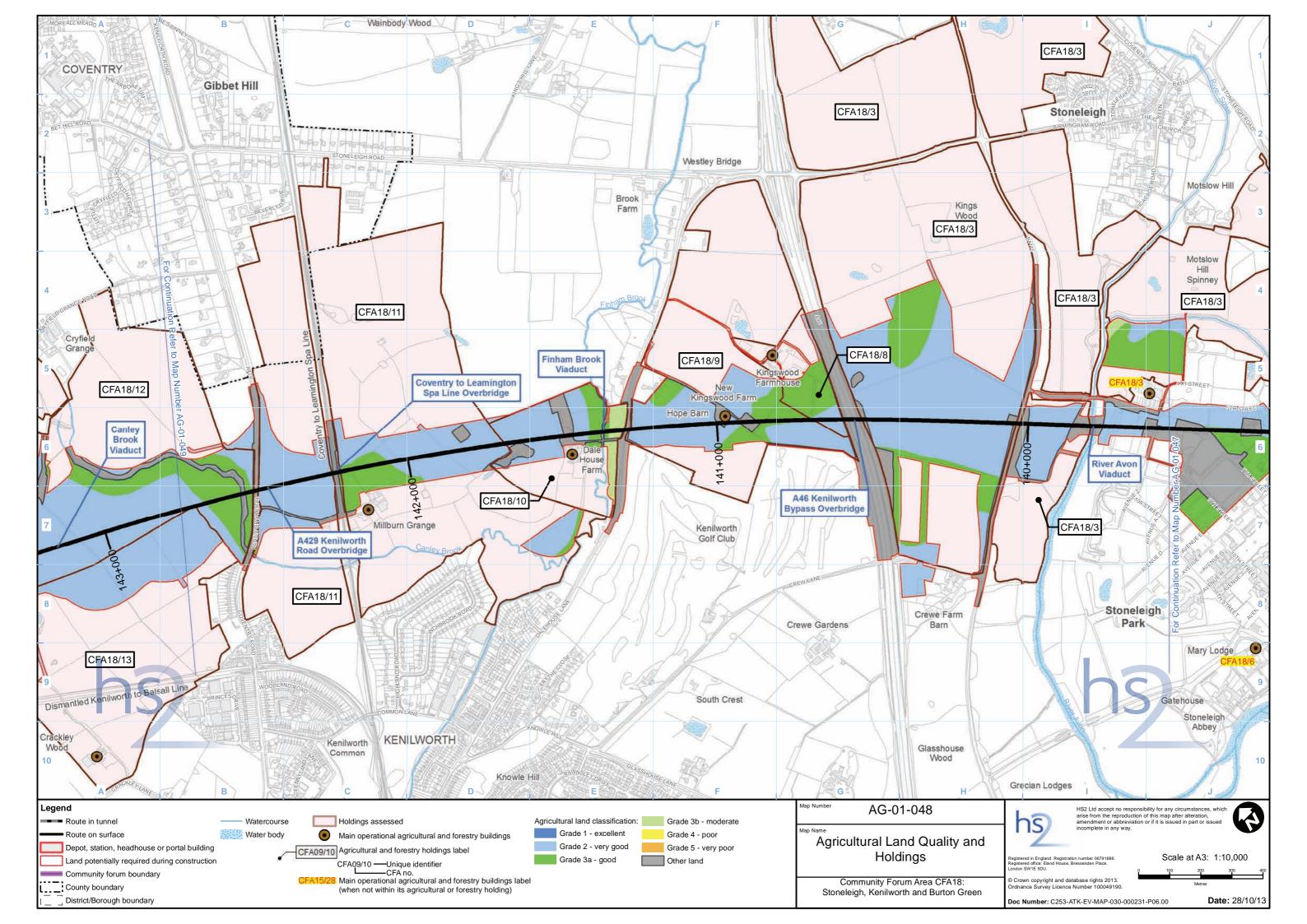


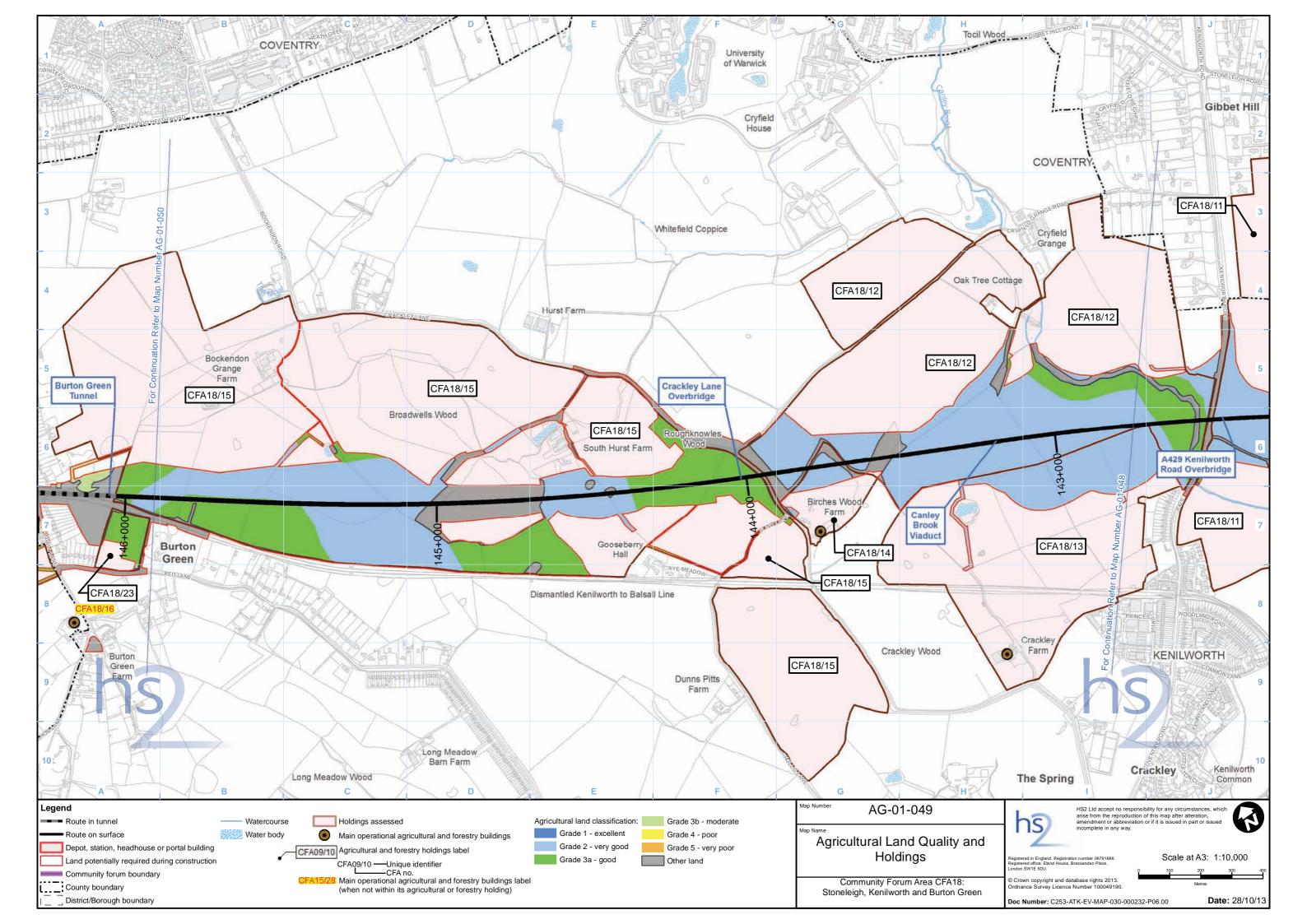
CFA<sub>18</sub> | Stoneleigh, Kenilworth and Burton Green

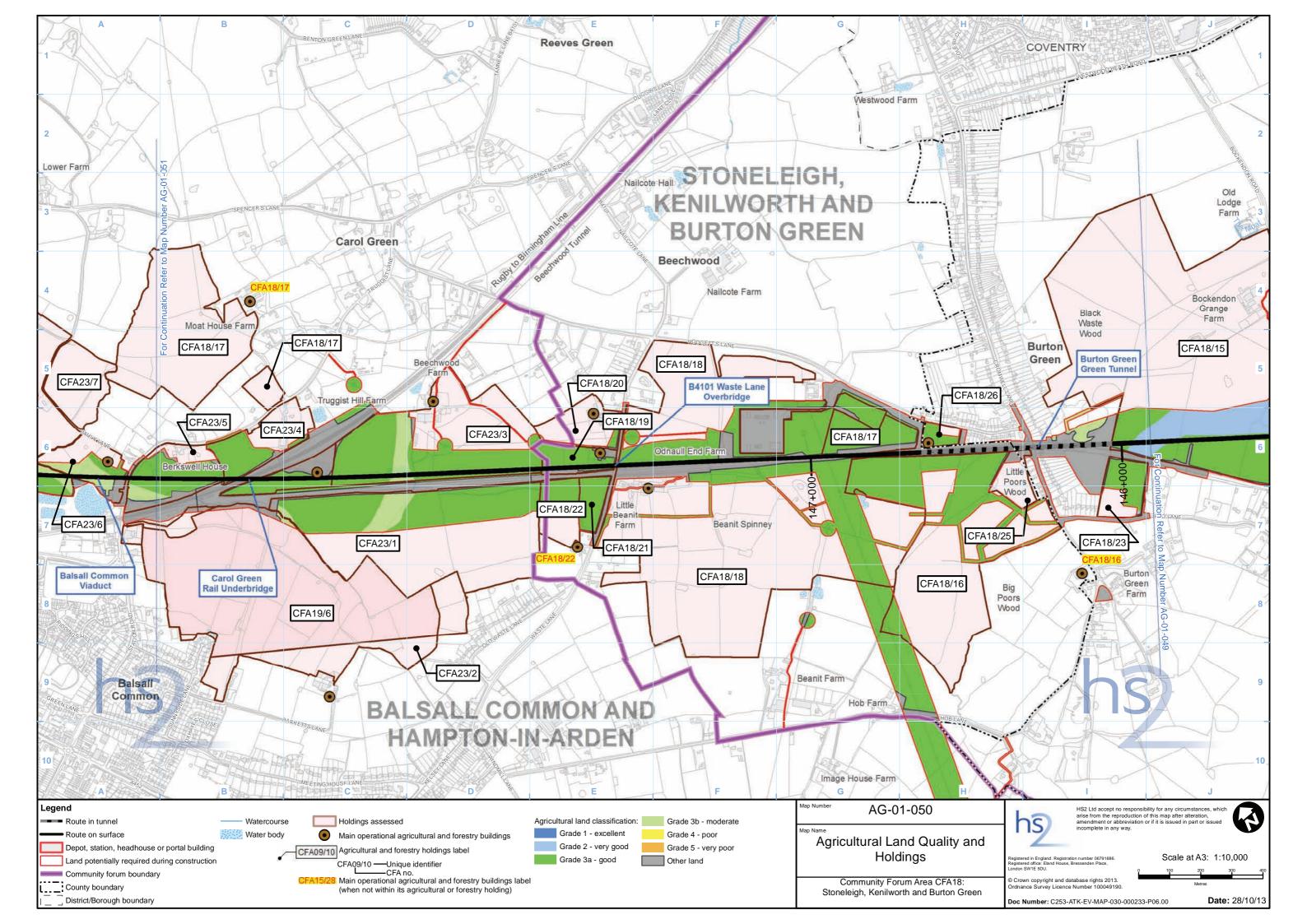
AG-01 - Agricultural Land Quality and Holdings

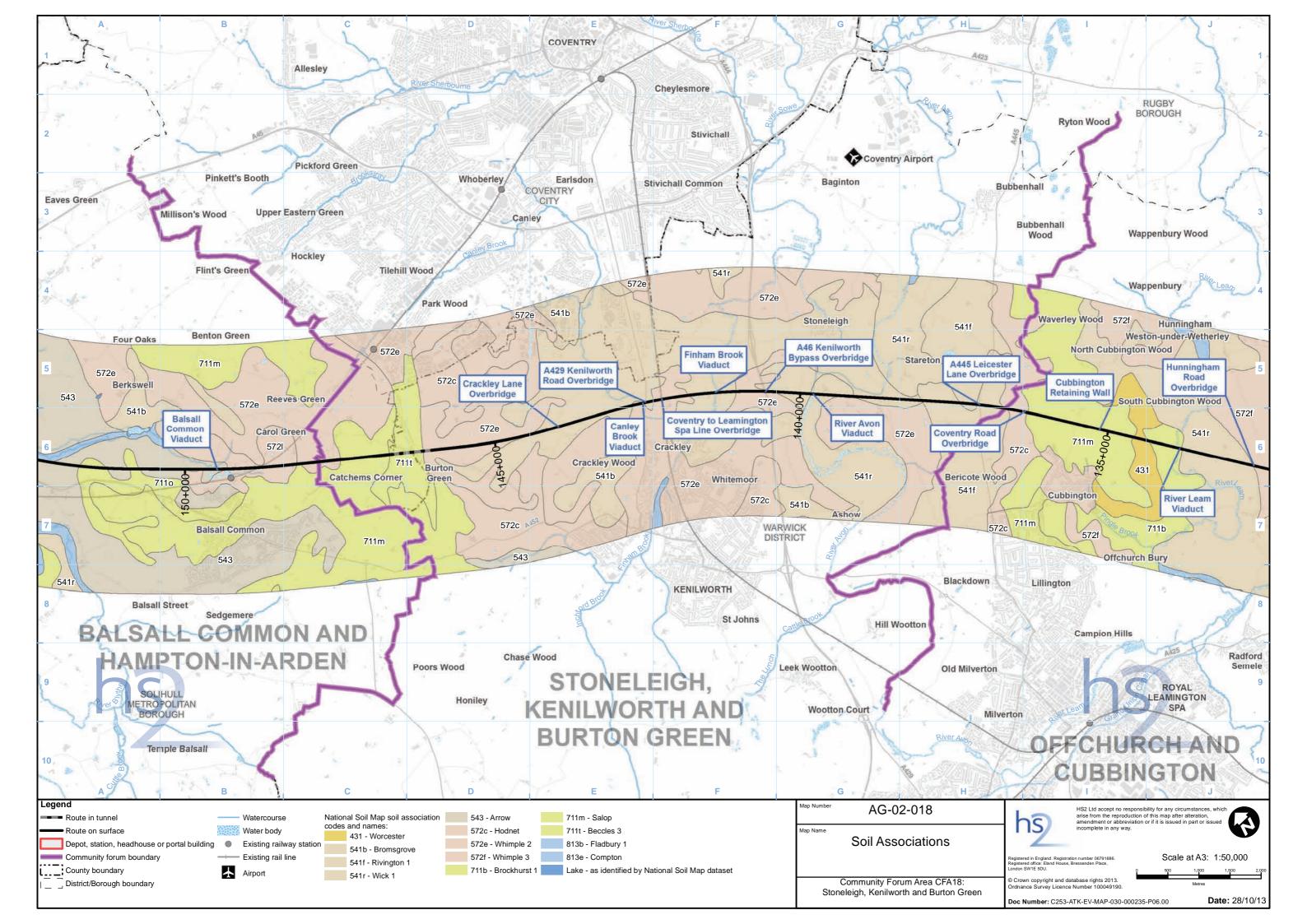










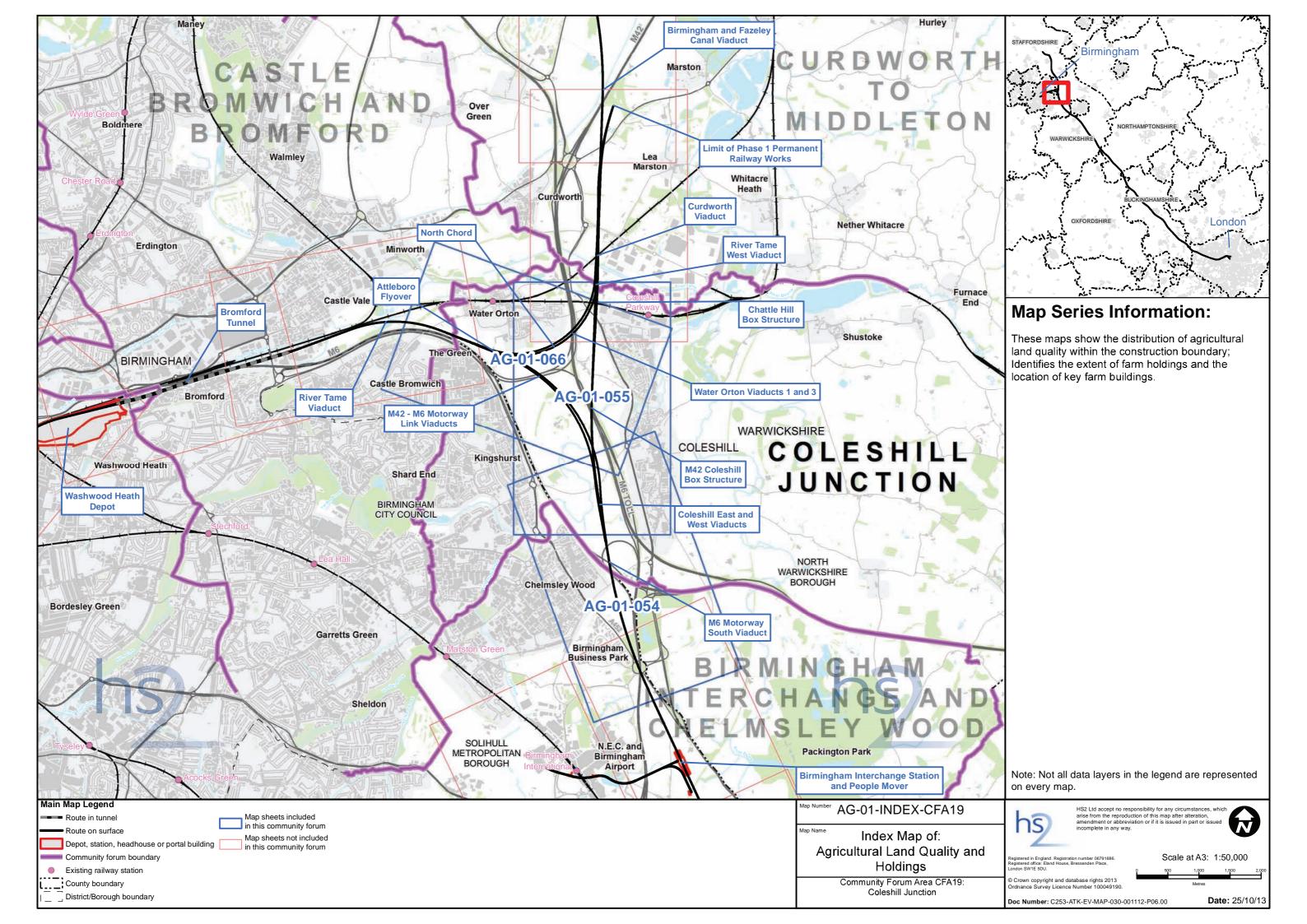


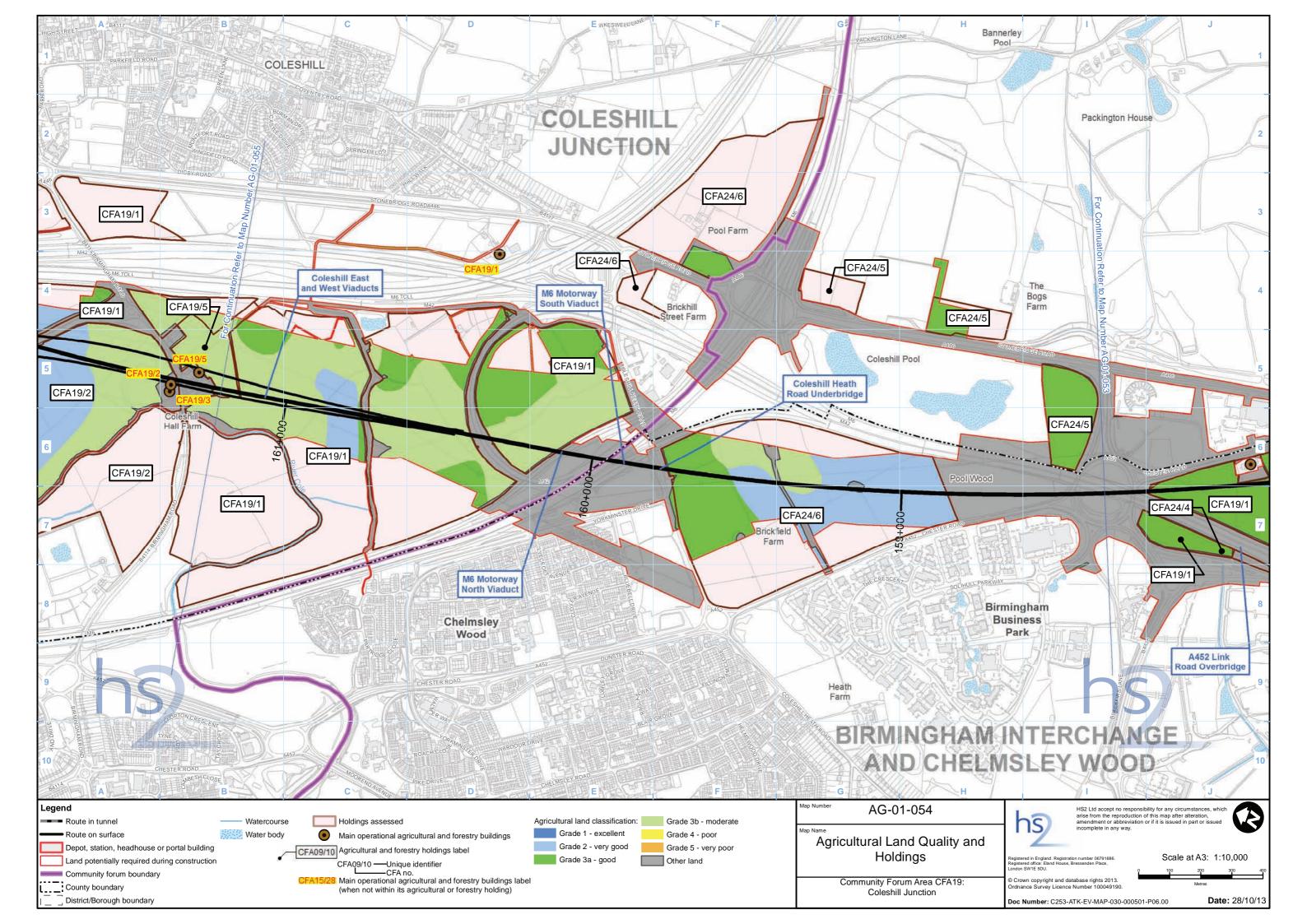
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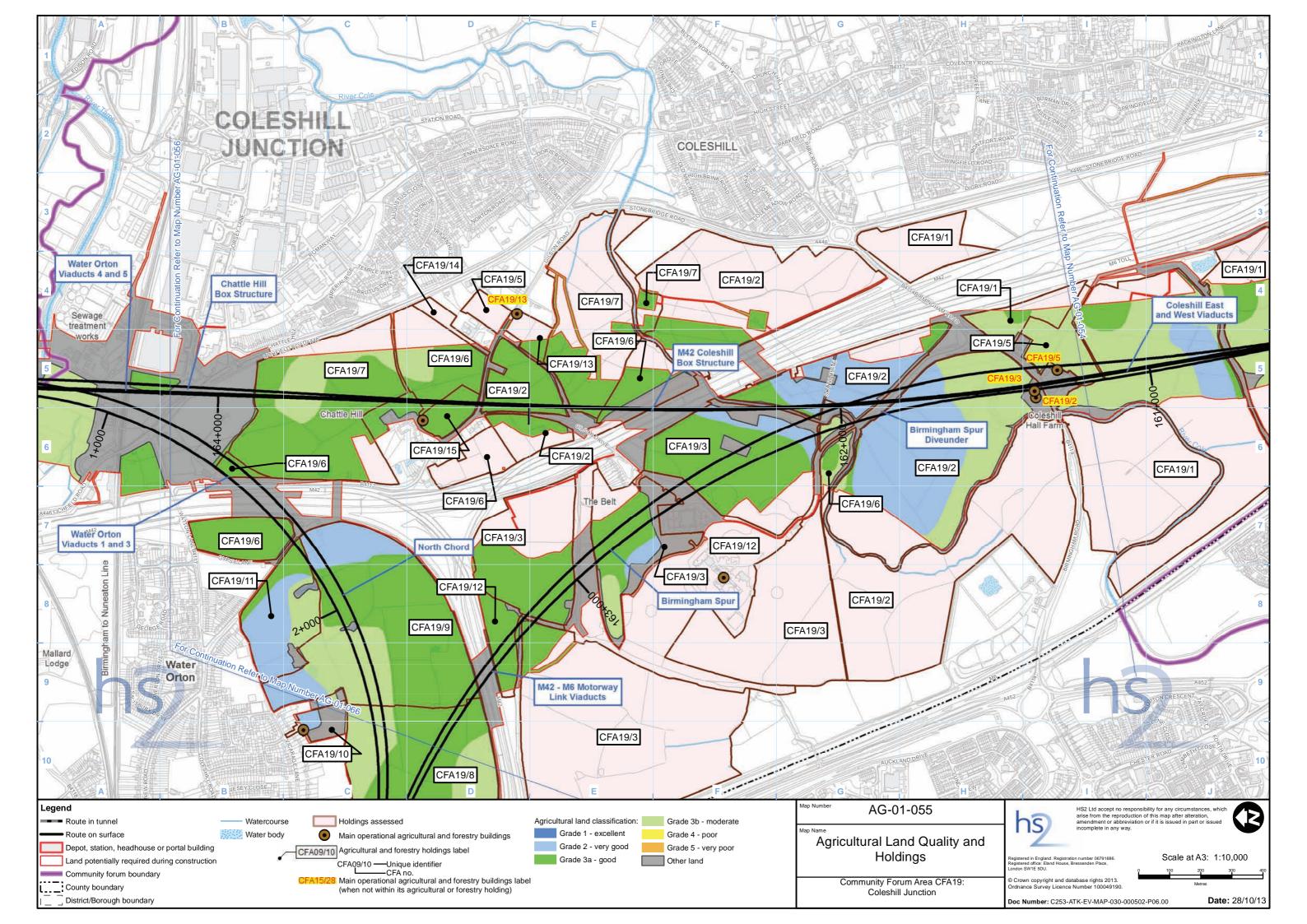


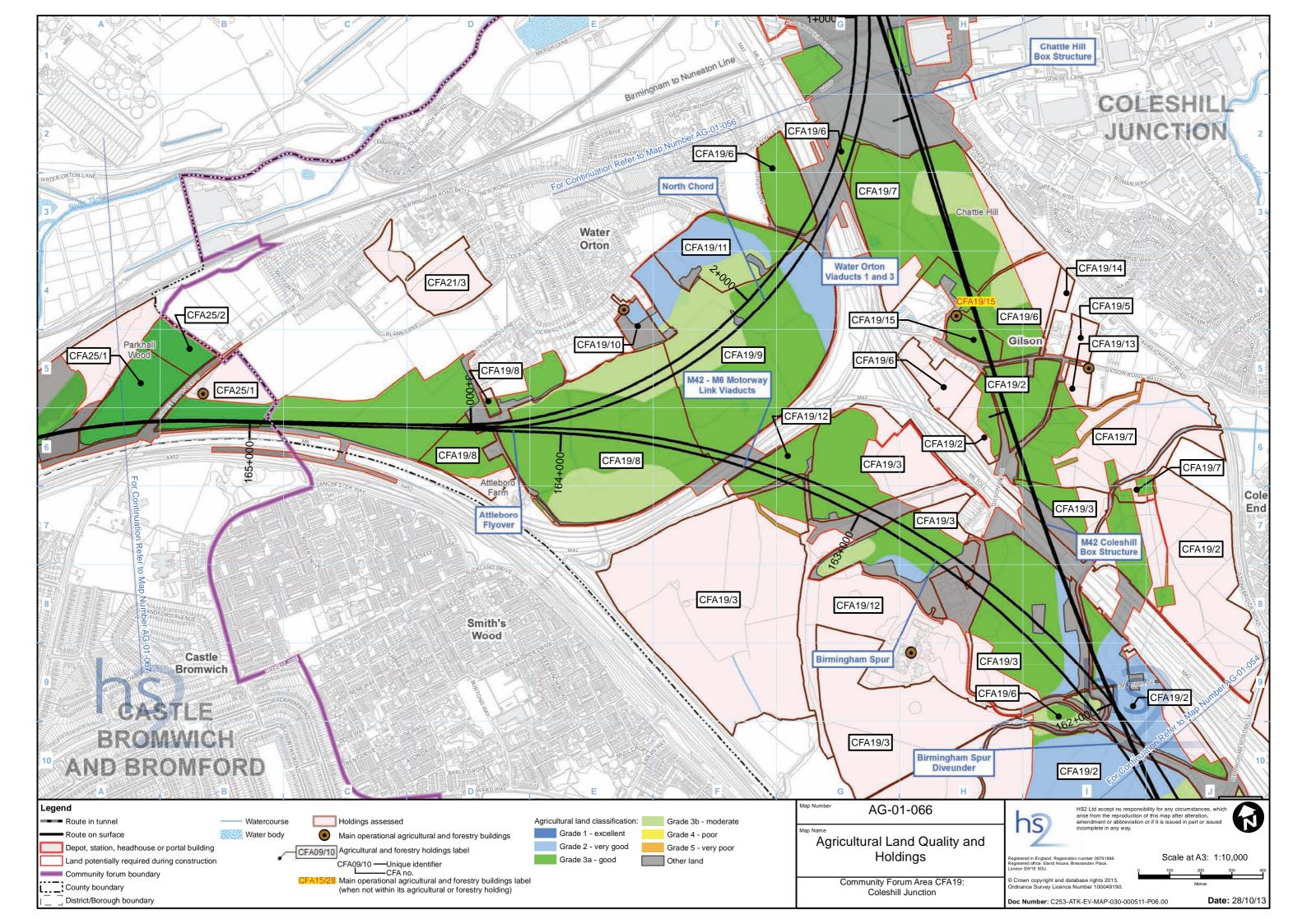
CFA19 | Coleshill Junction

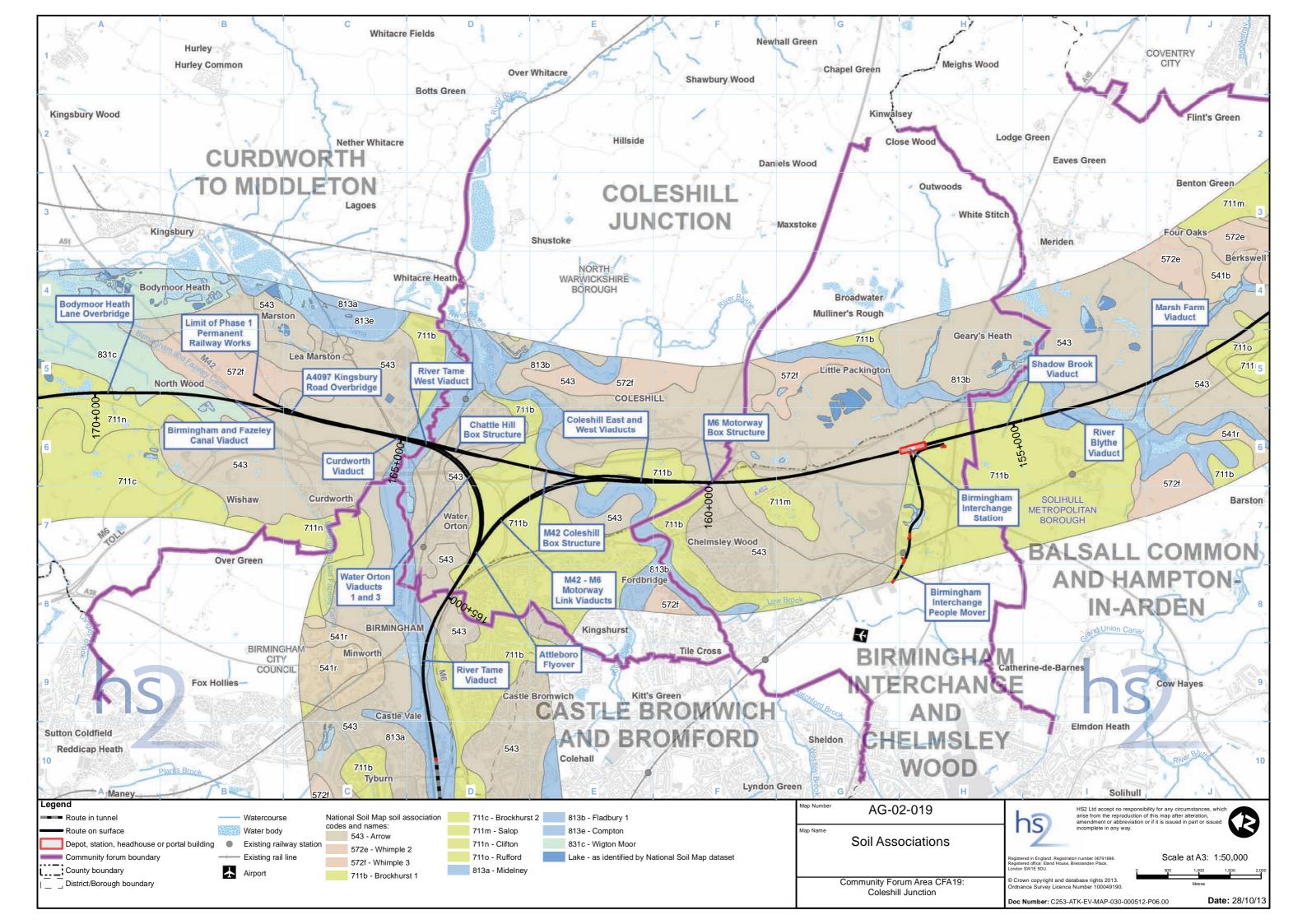
AG-01 - Agricultural Land Quality and Holdings







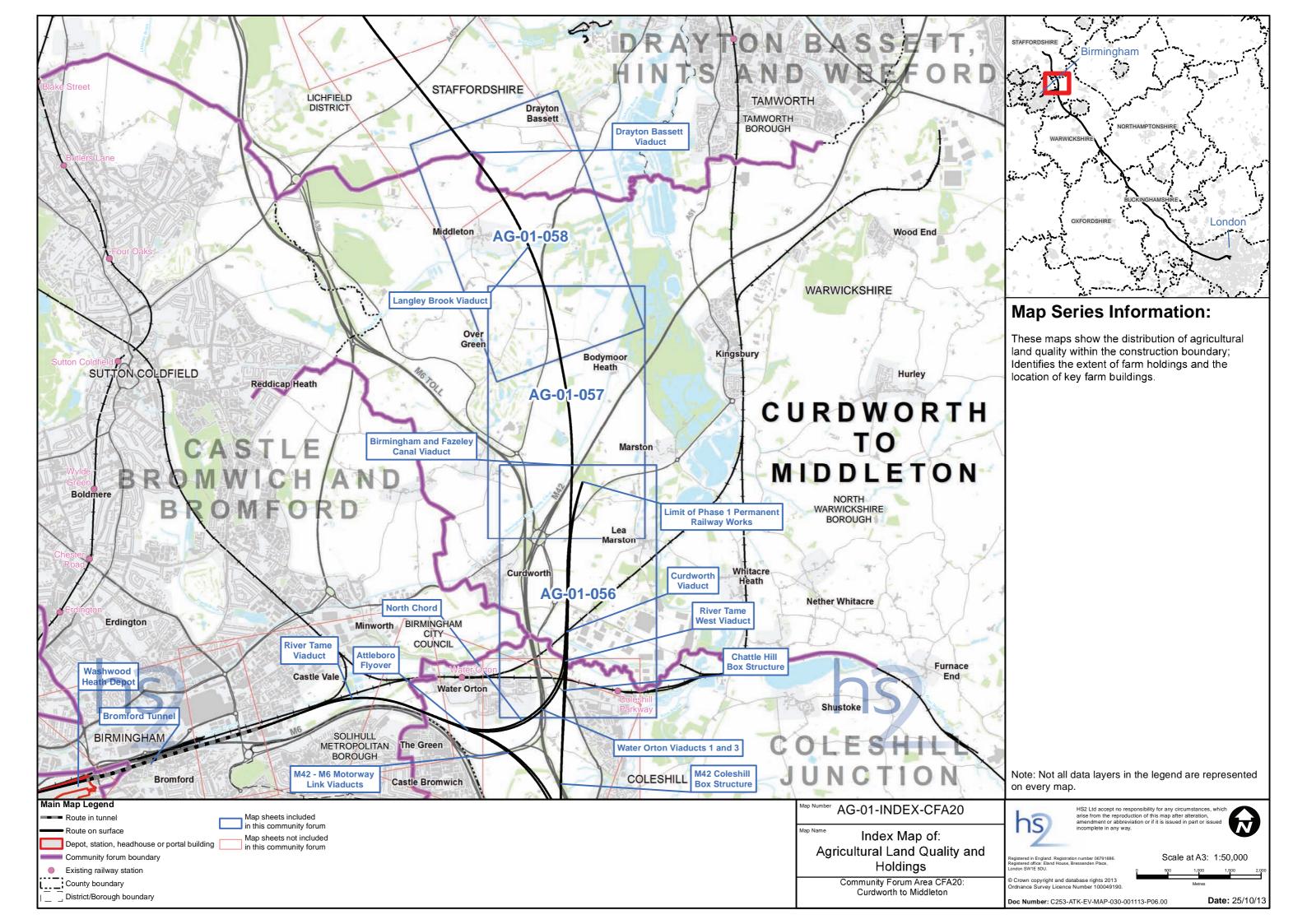


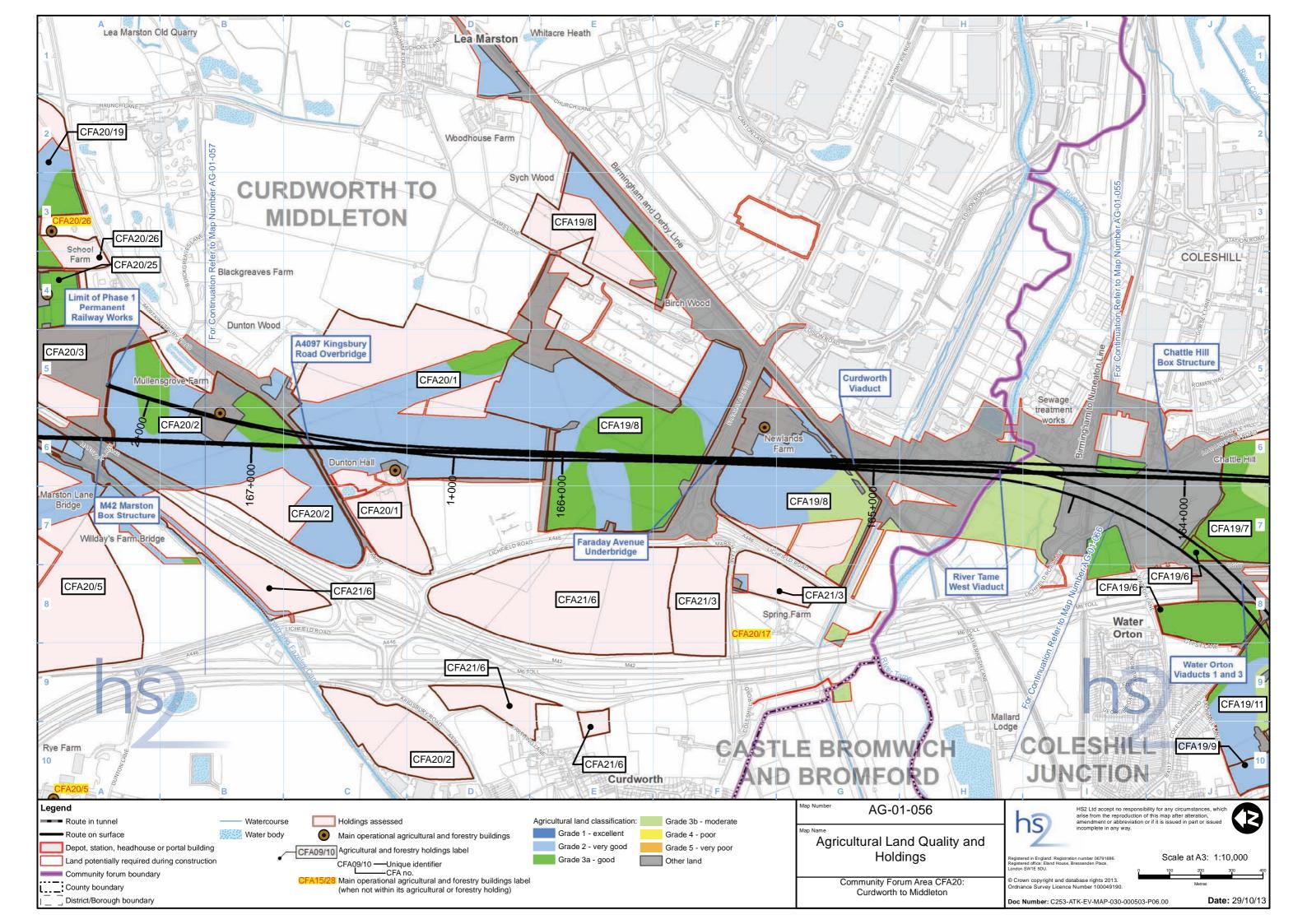


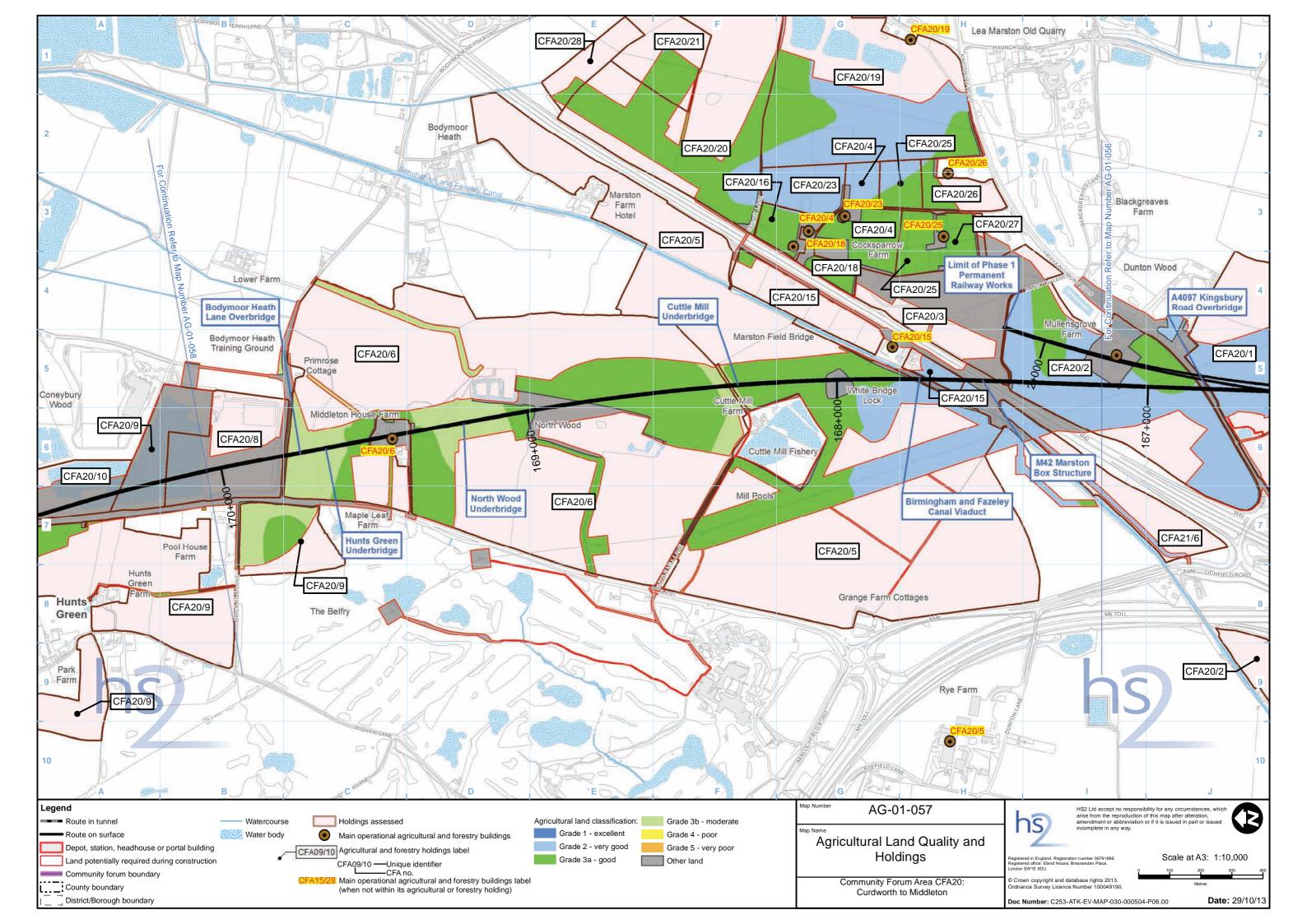


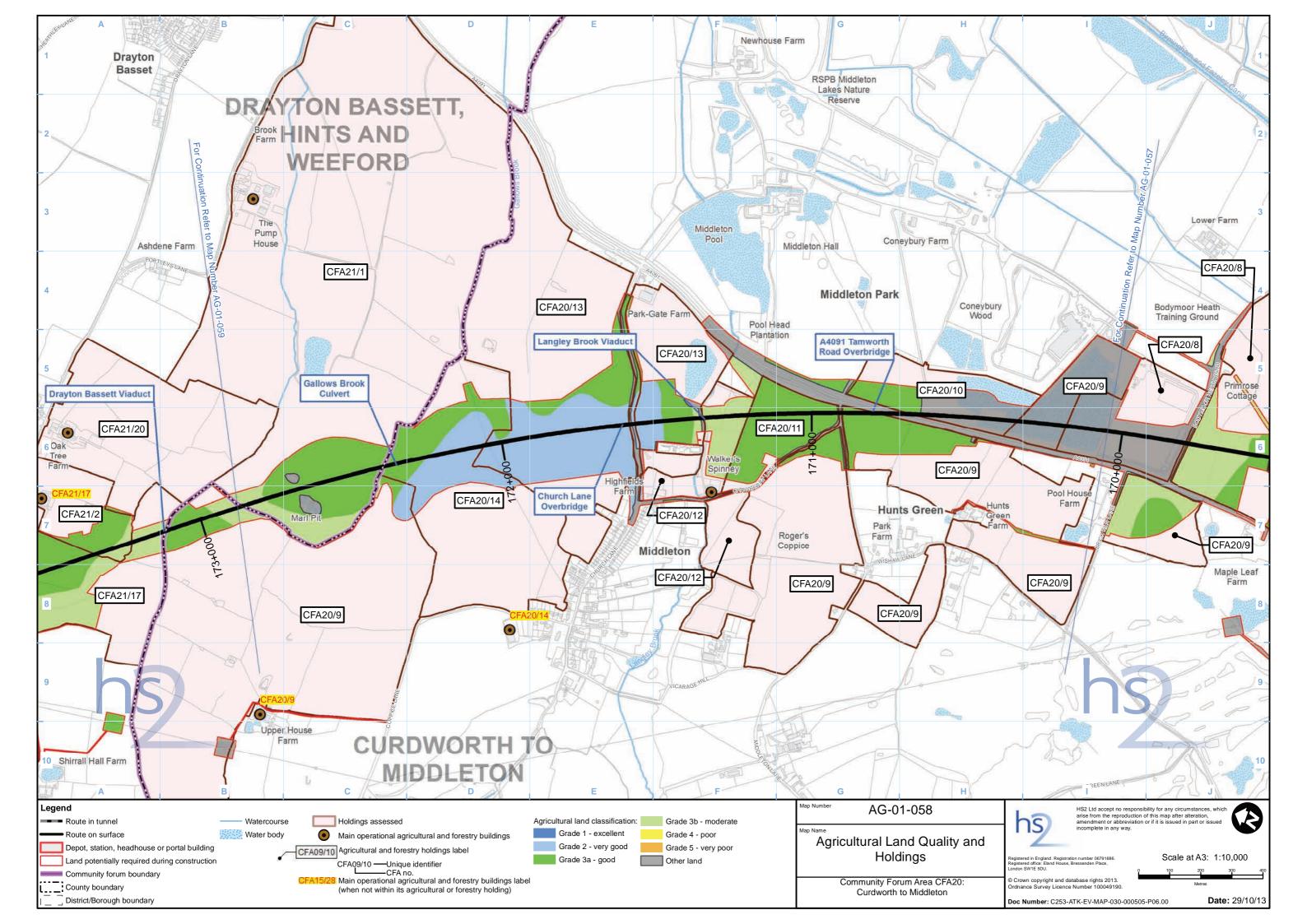
CFA20 | Curdworth to Middleton

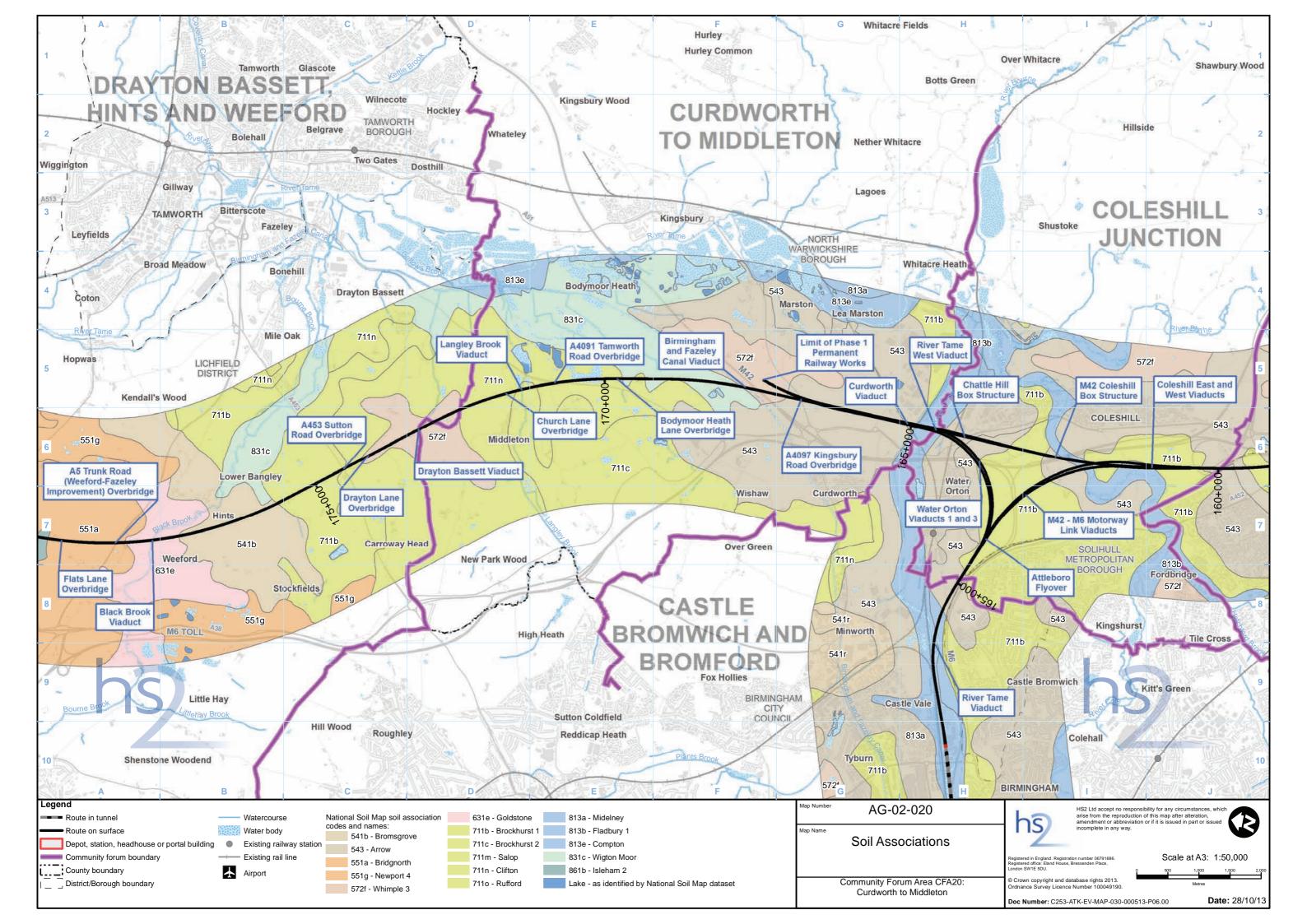
AG-01 - Agricultural Land Quality and Holdings







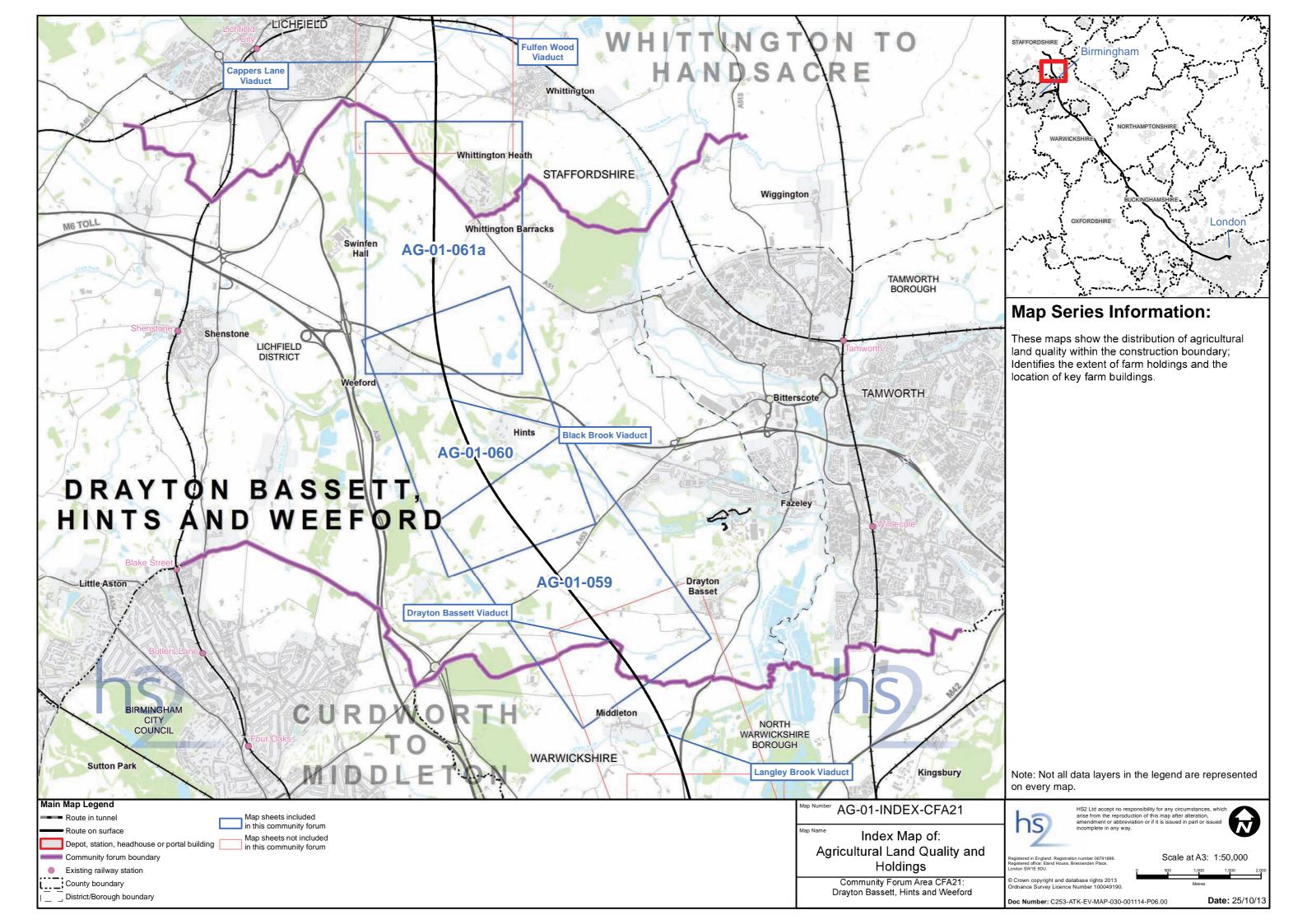


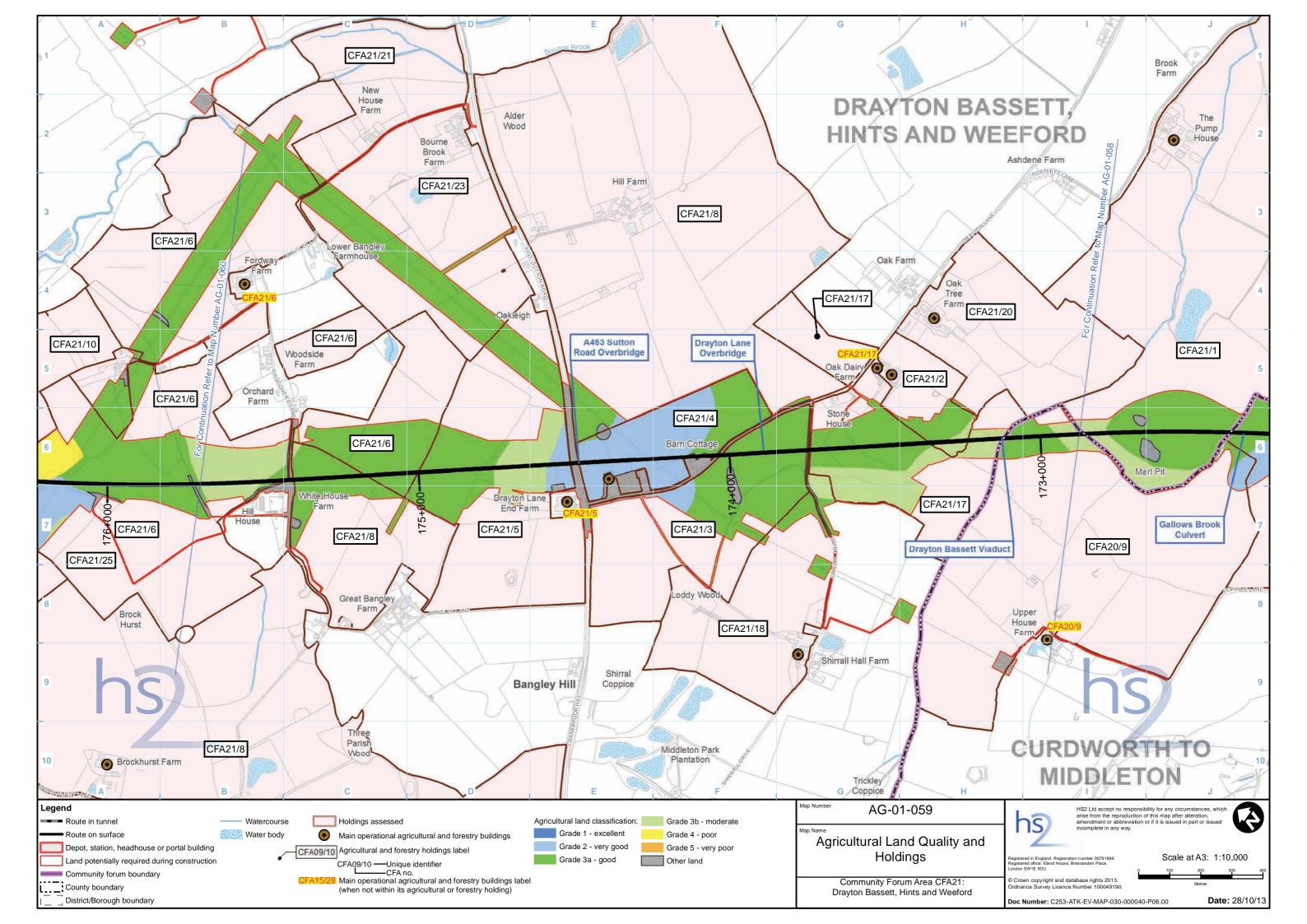


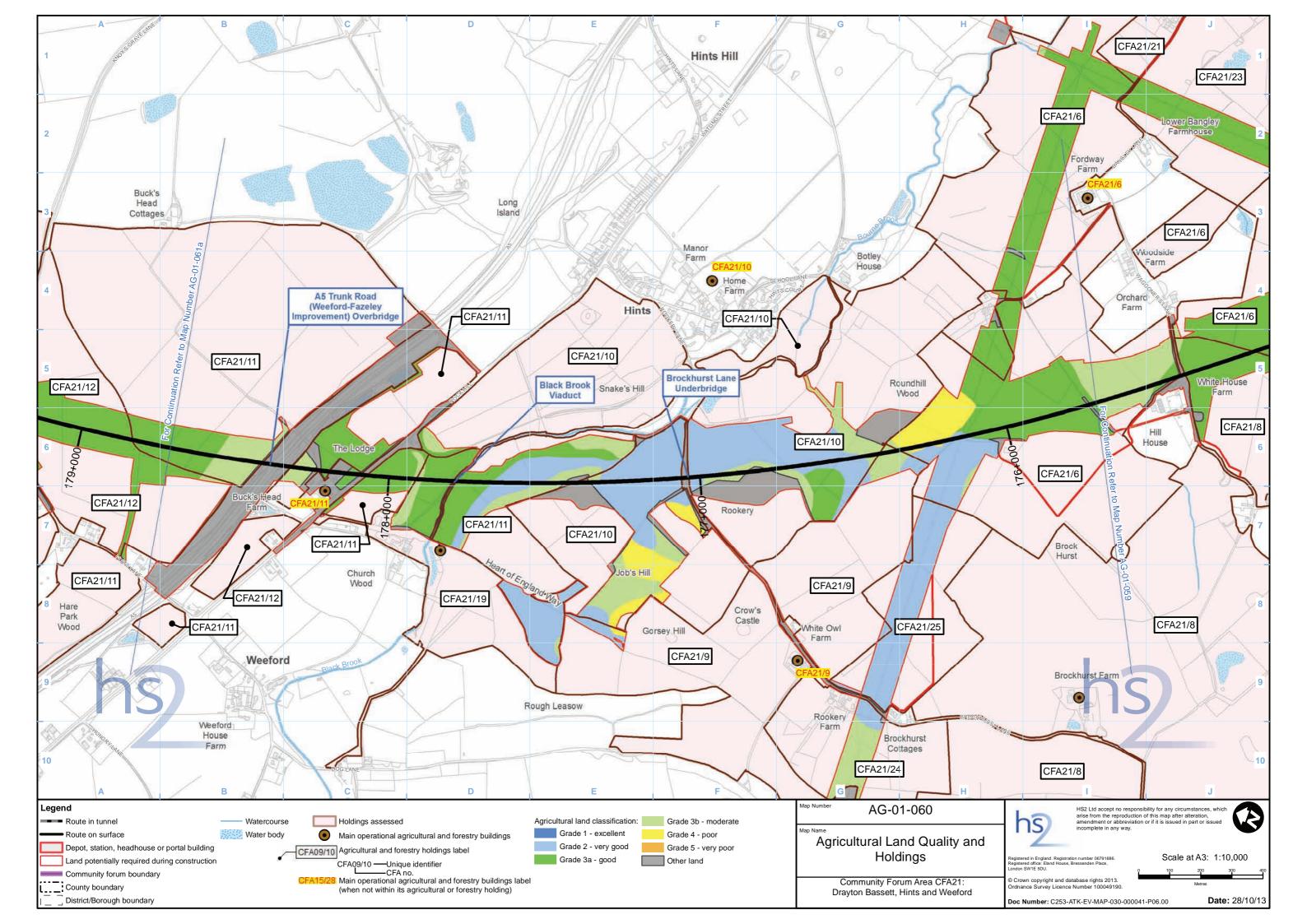


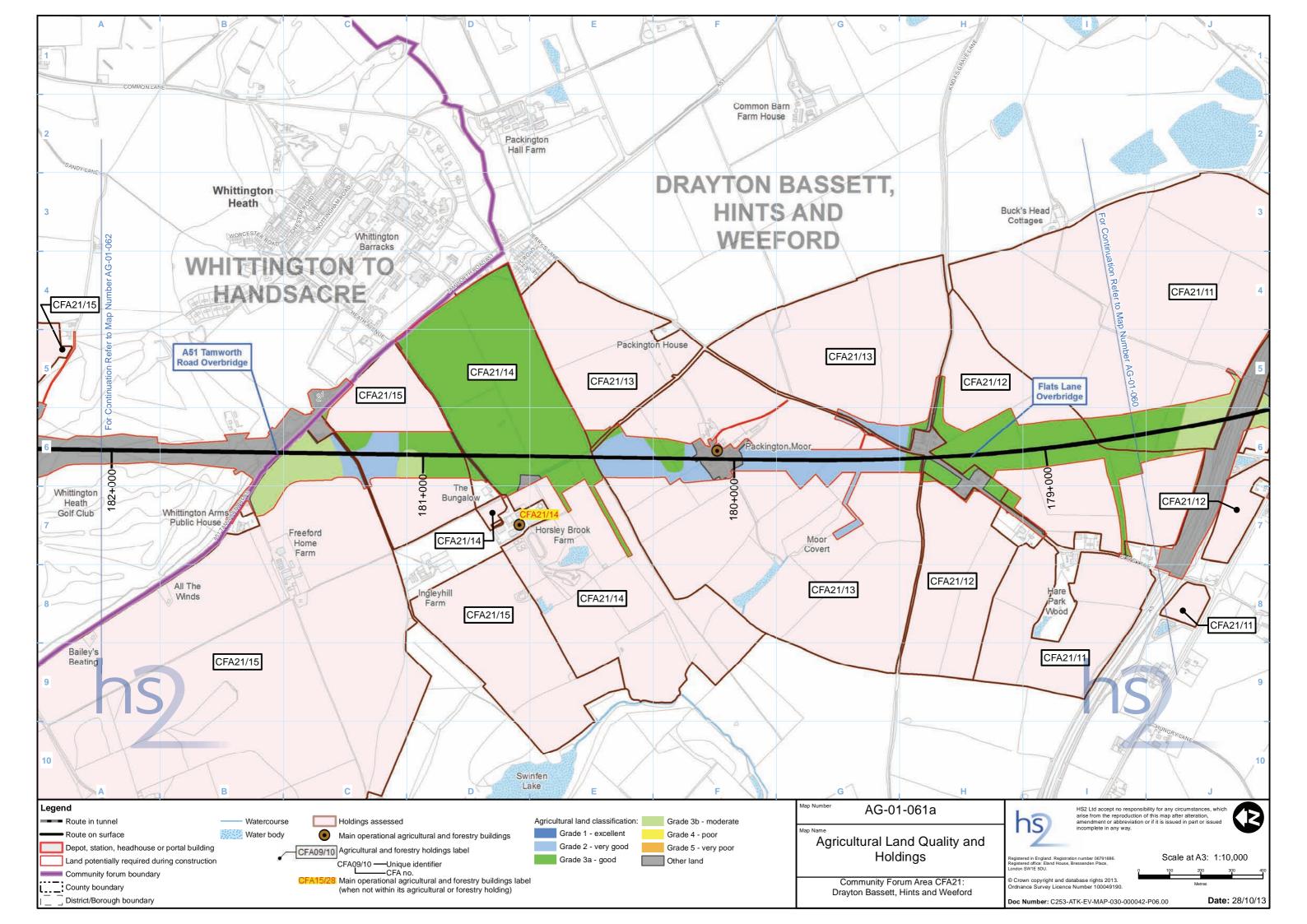
CFA21 | Drayton Bassett, Hints and Weeford

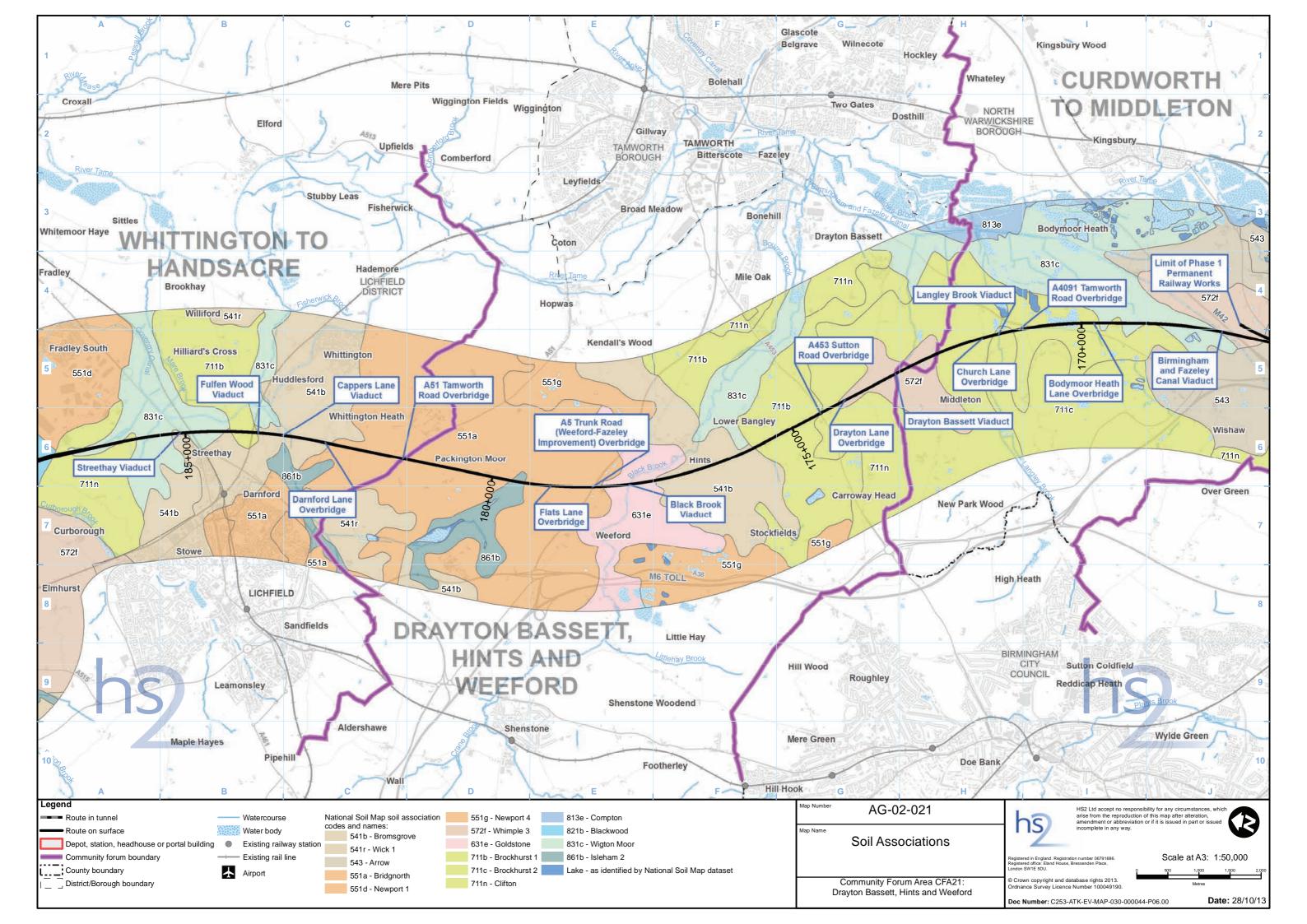
AG-01 - Agricultural Land Quality and Holdings







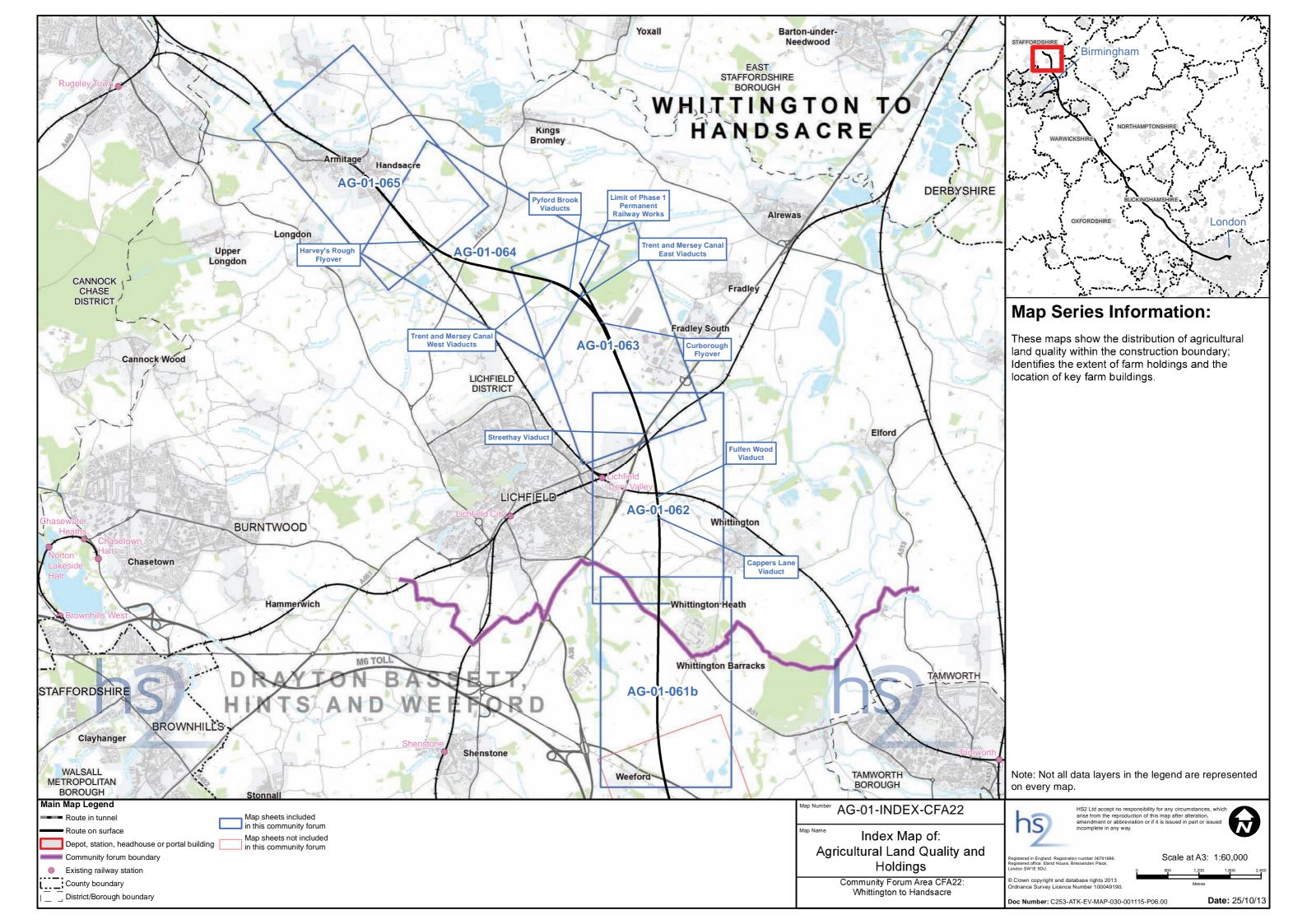


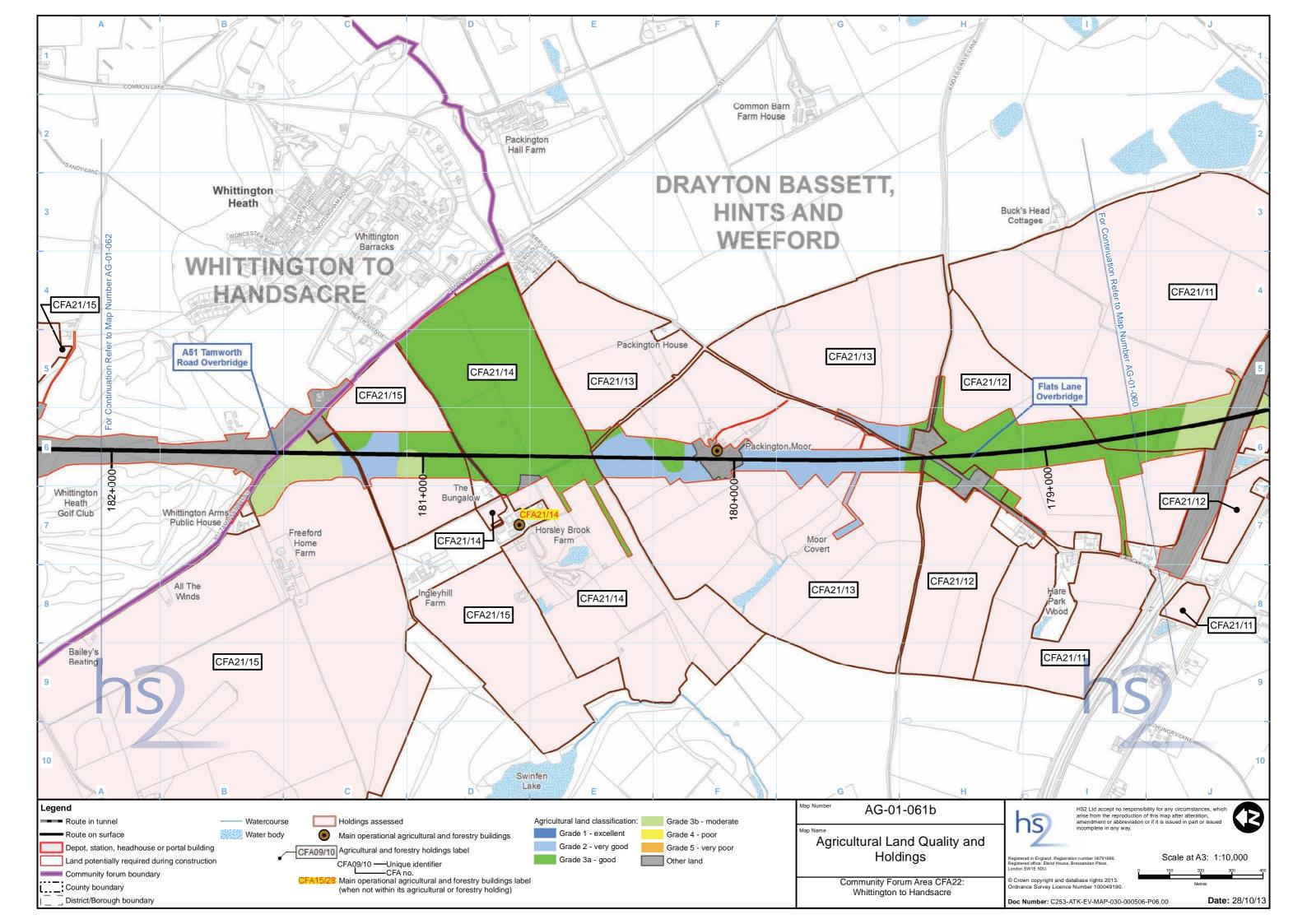


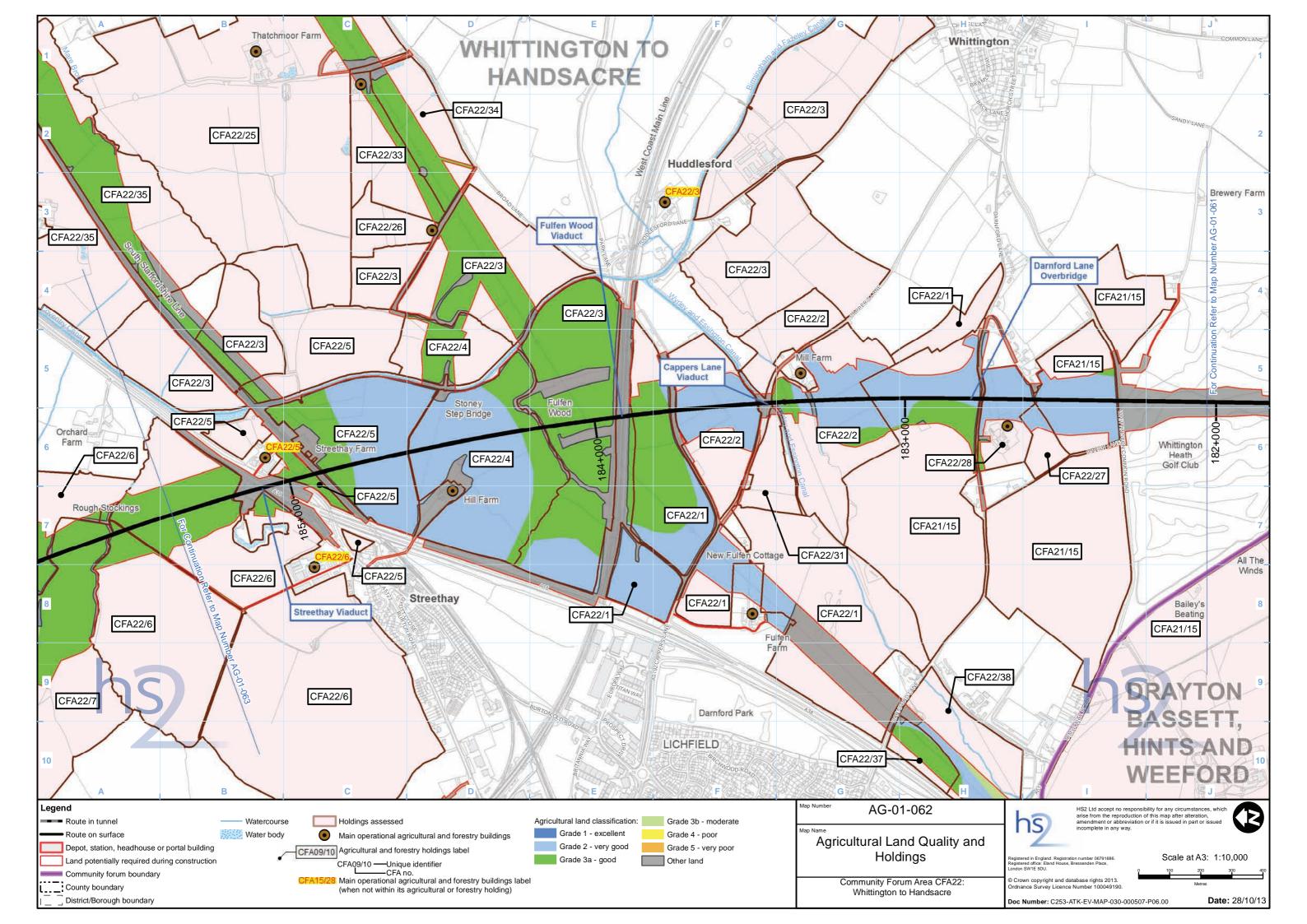


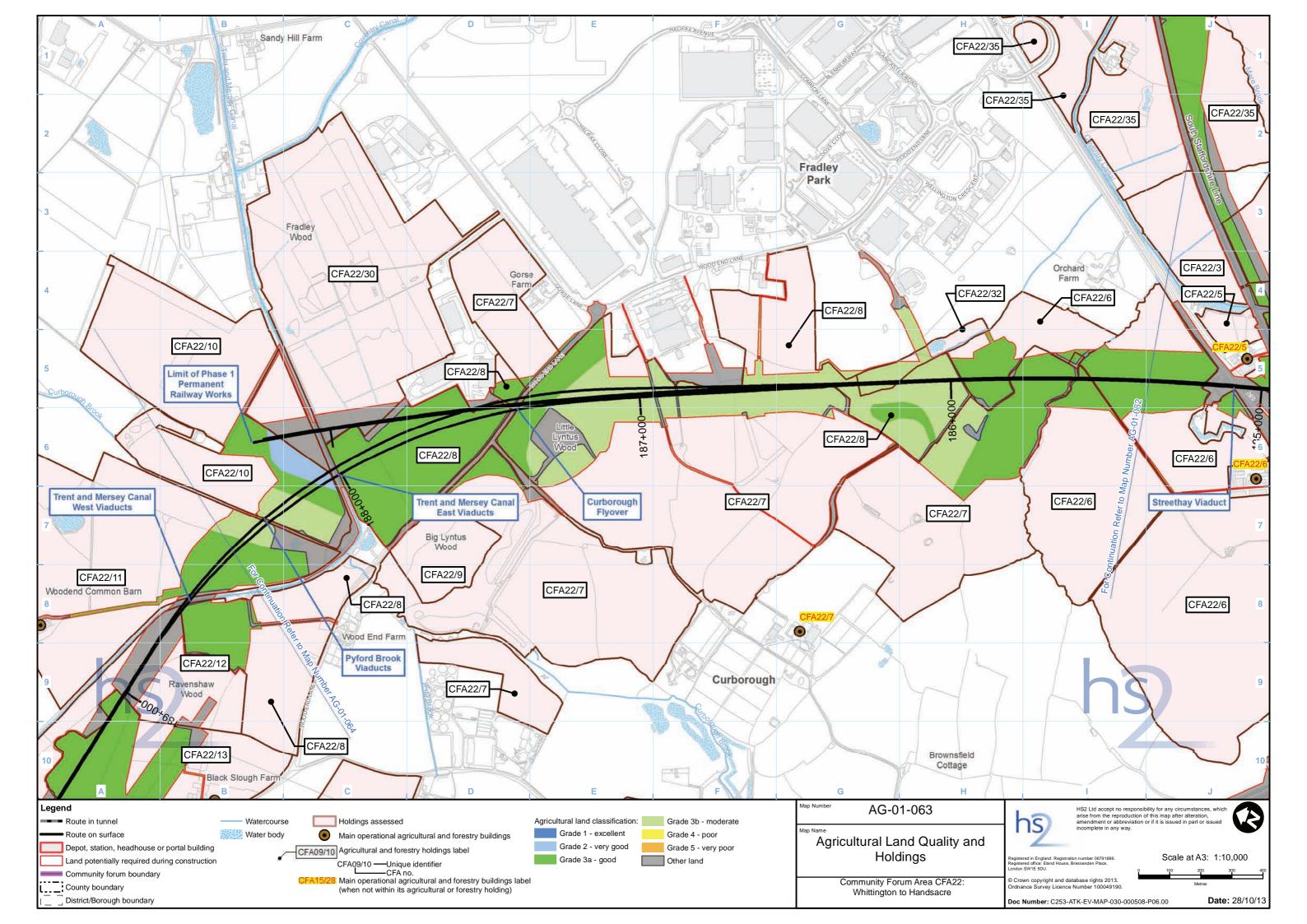
CFA22 | Whittington to Handsacre

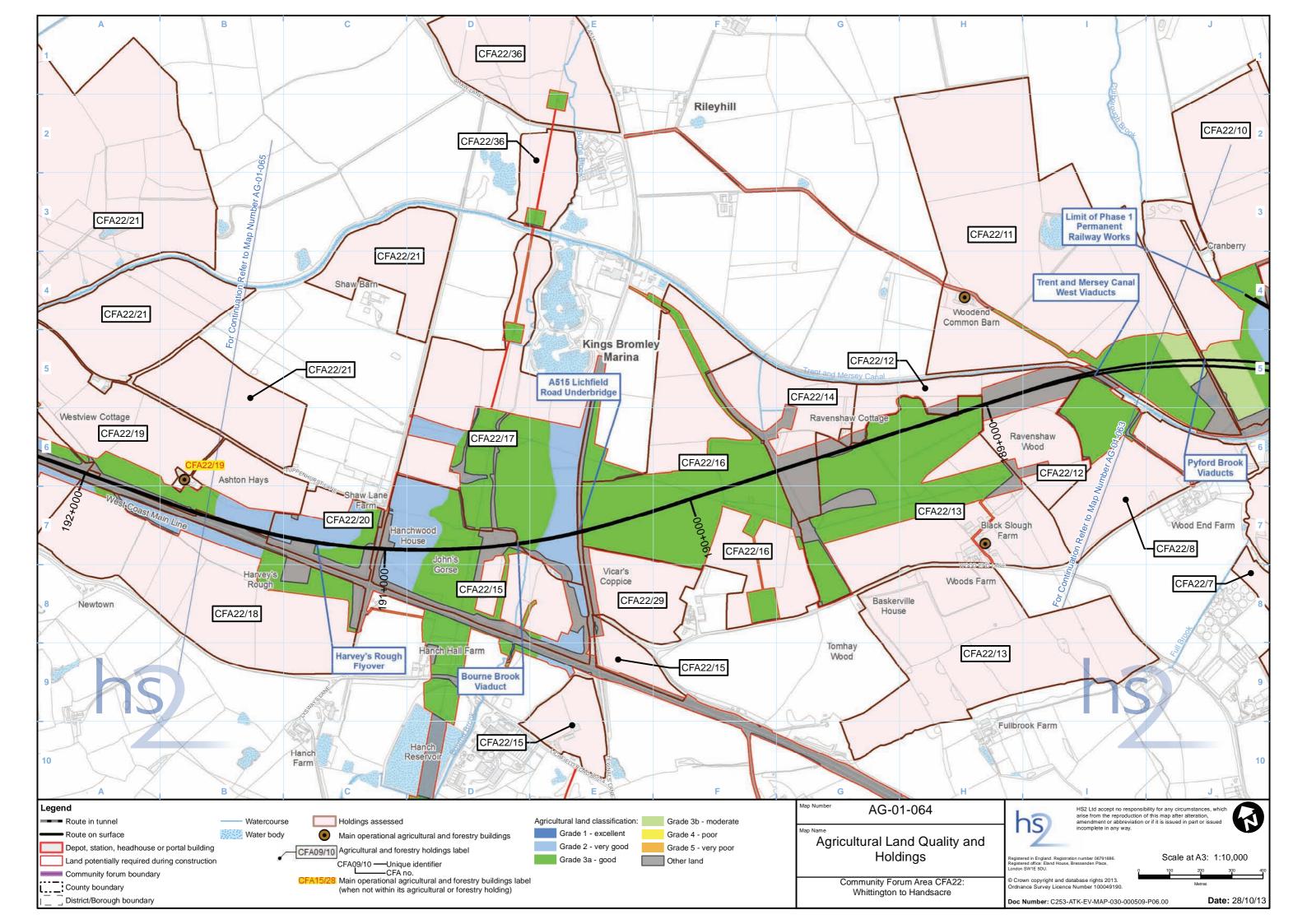
AG-01 - Agricultural Land Quality and Holdings

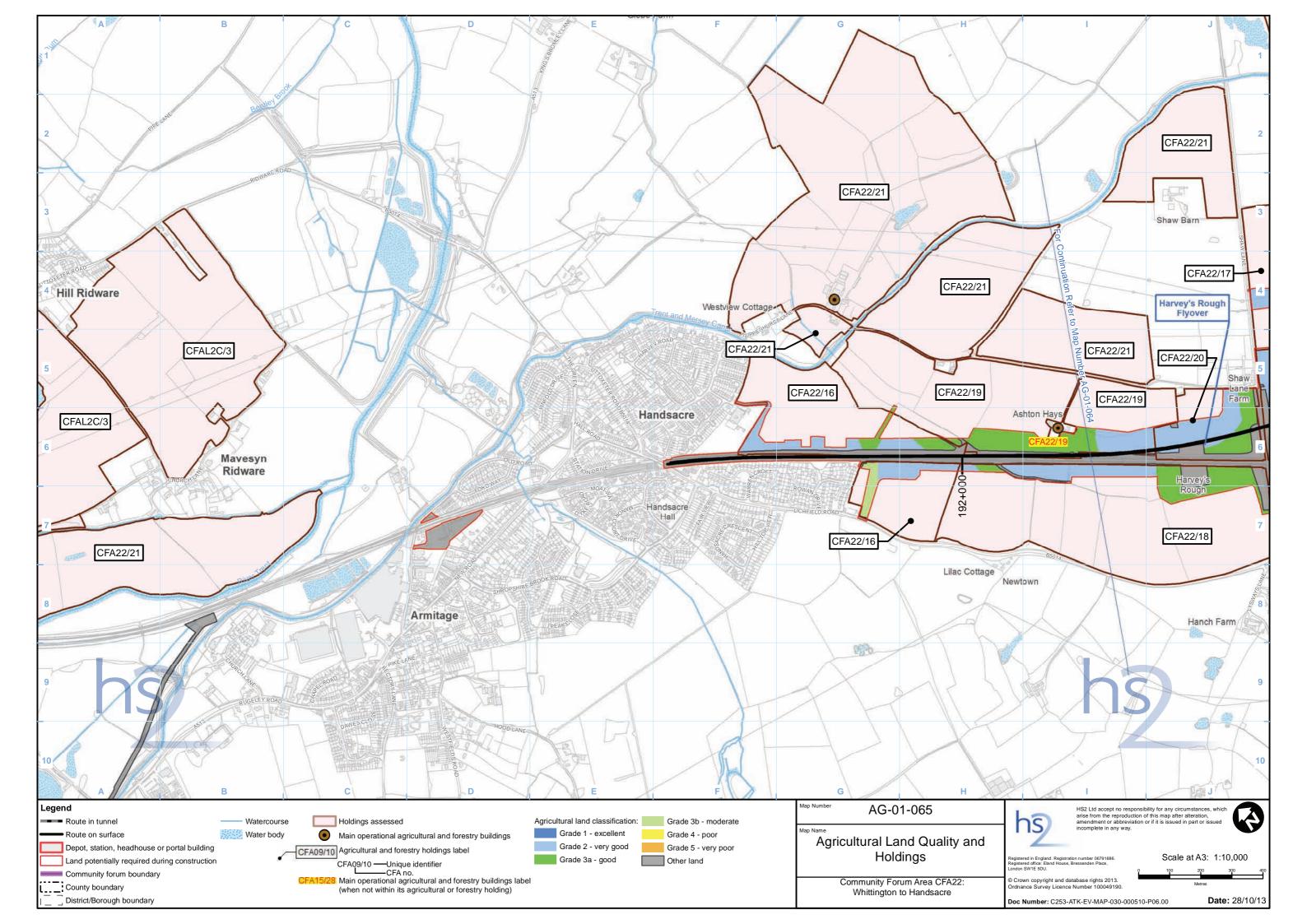


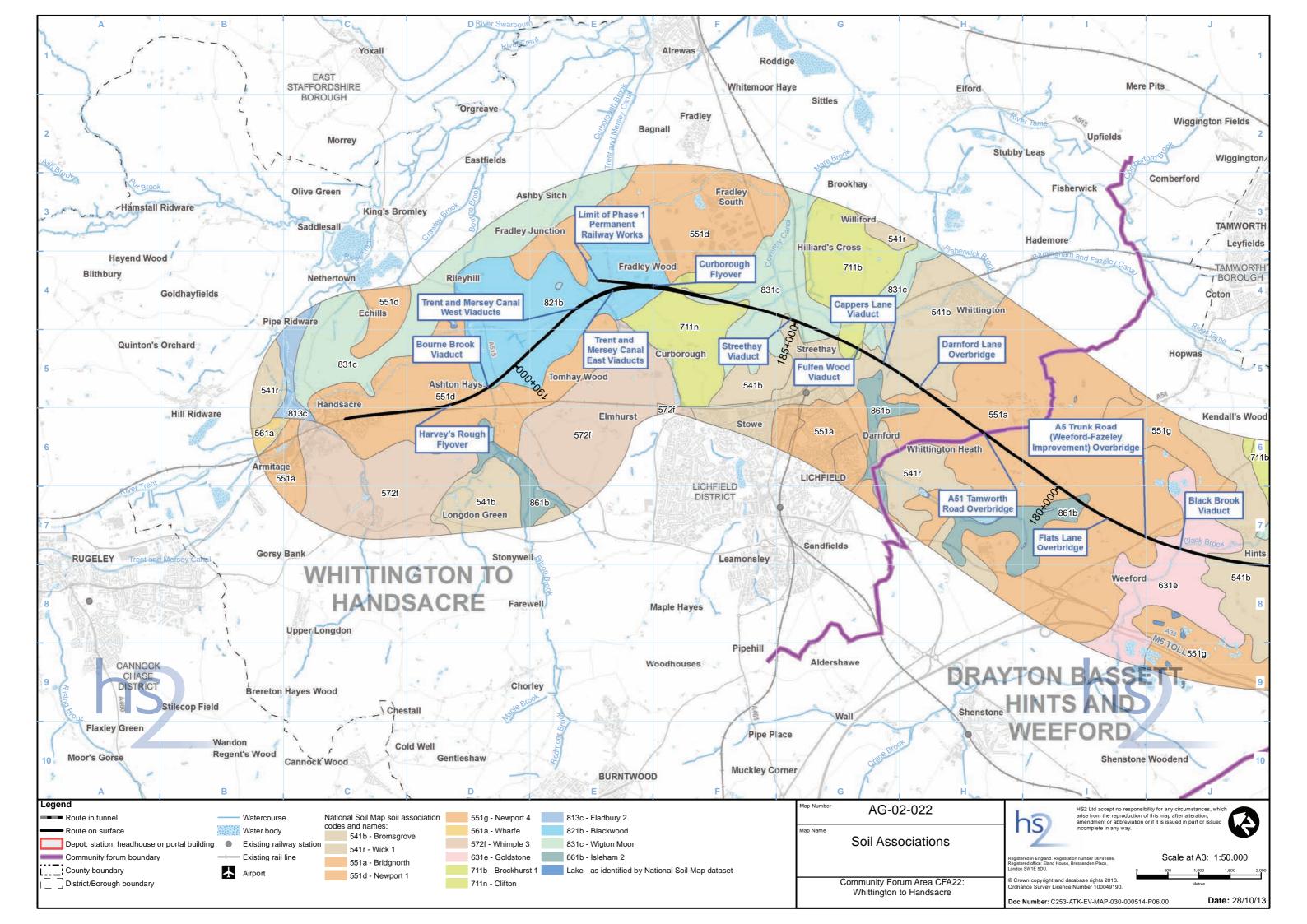








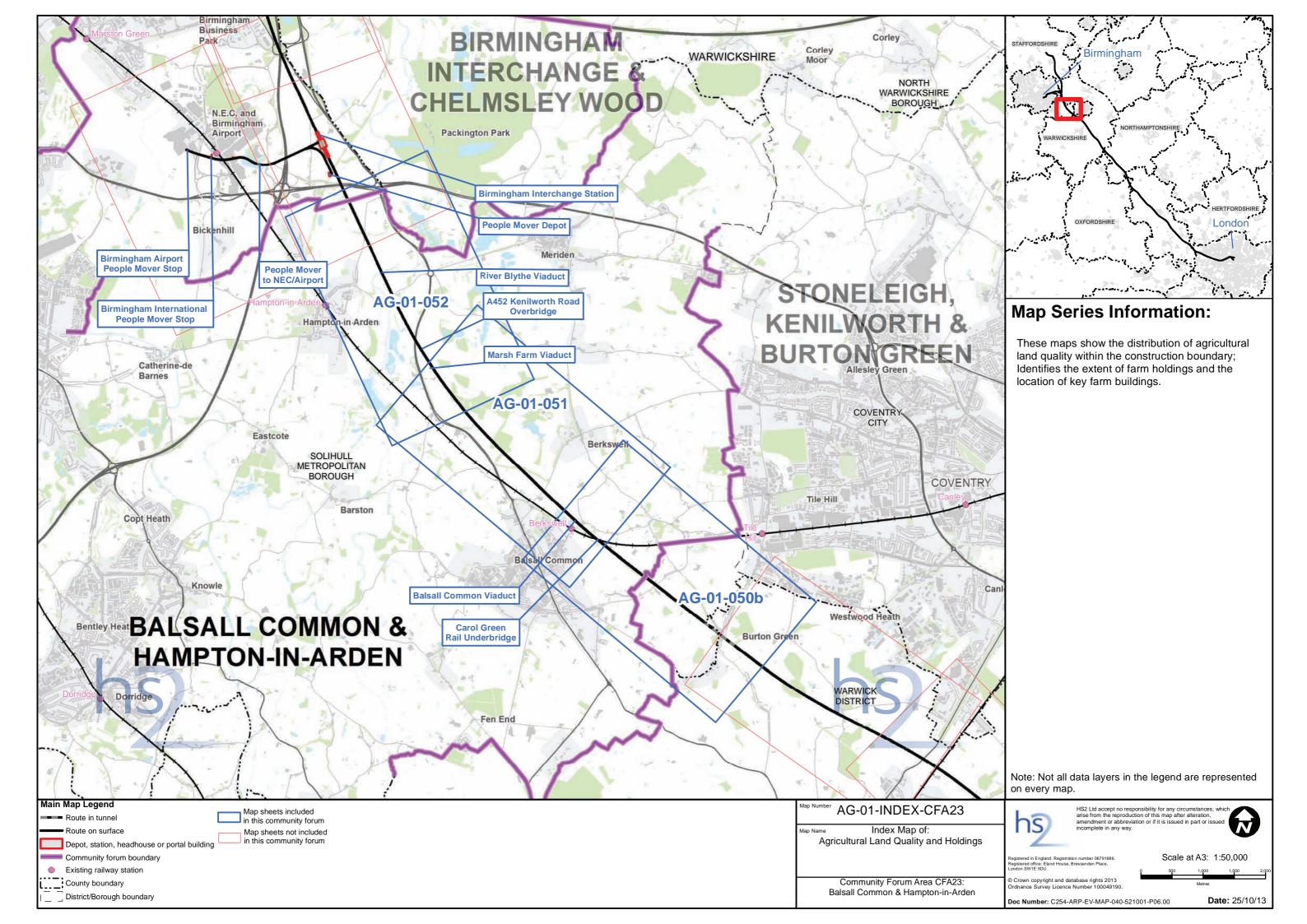


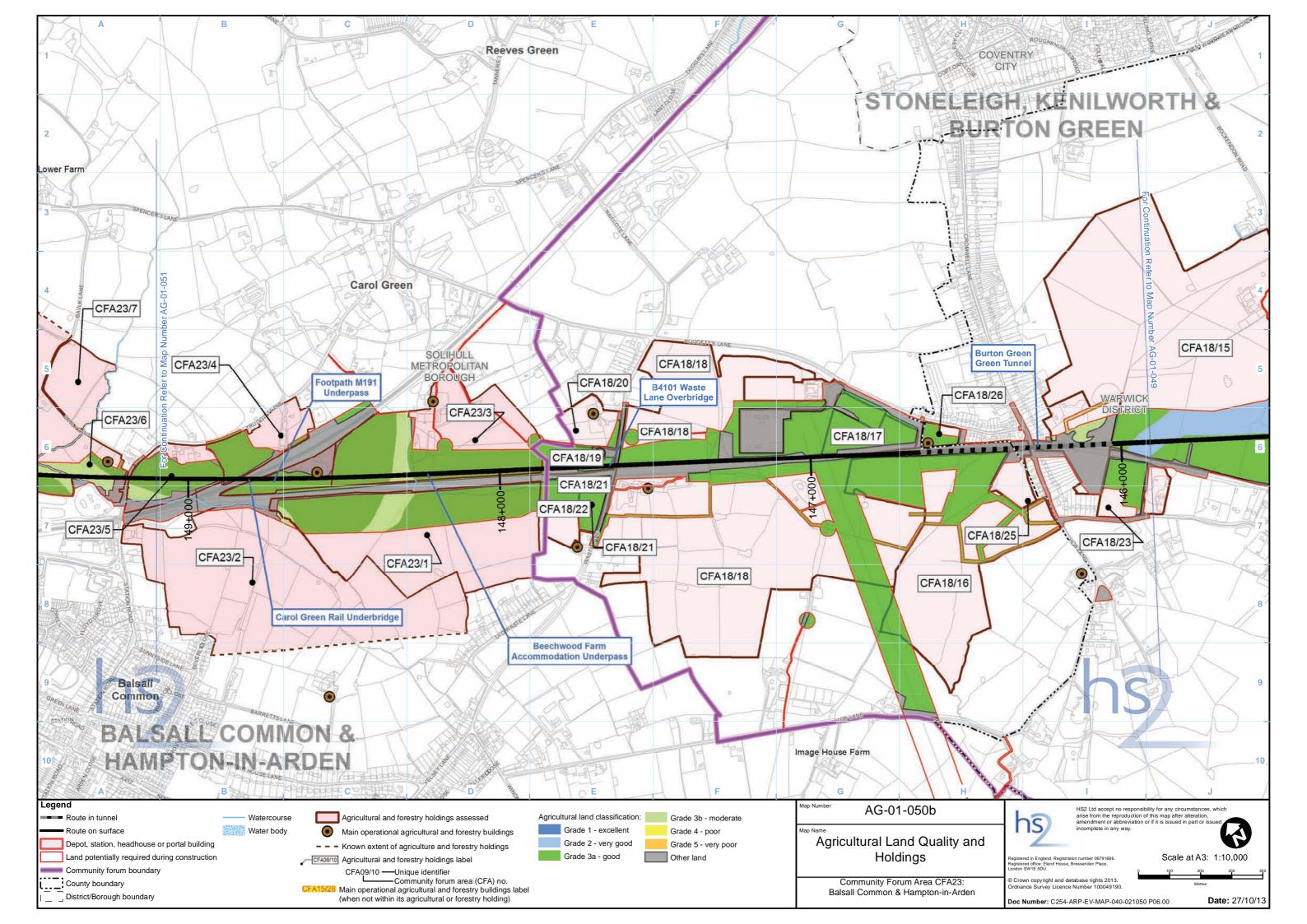


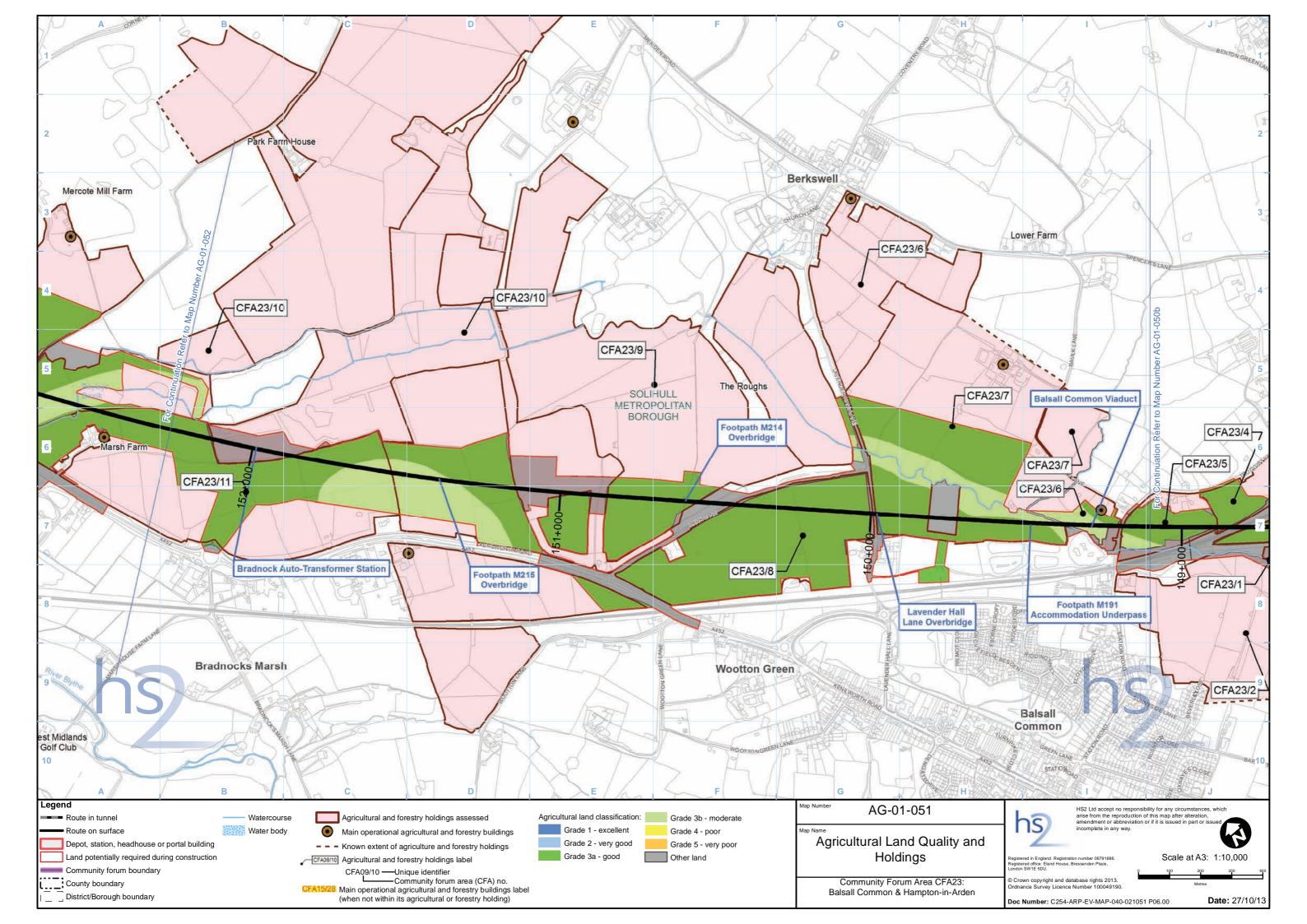


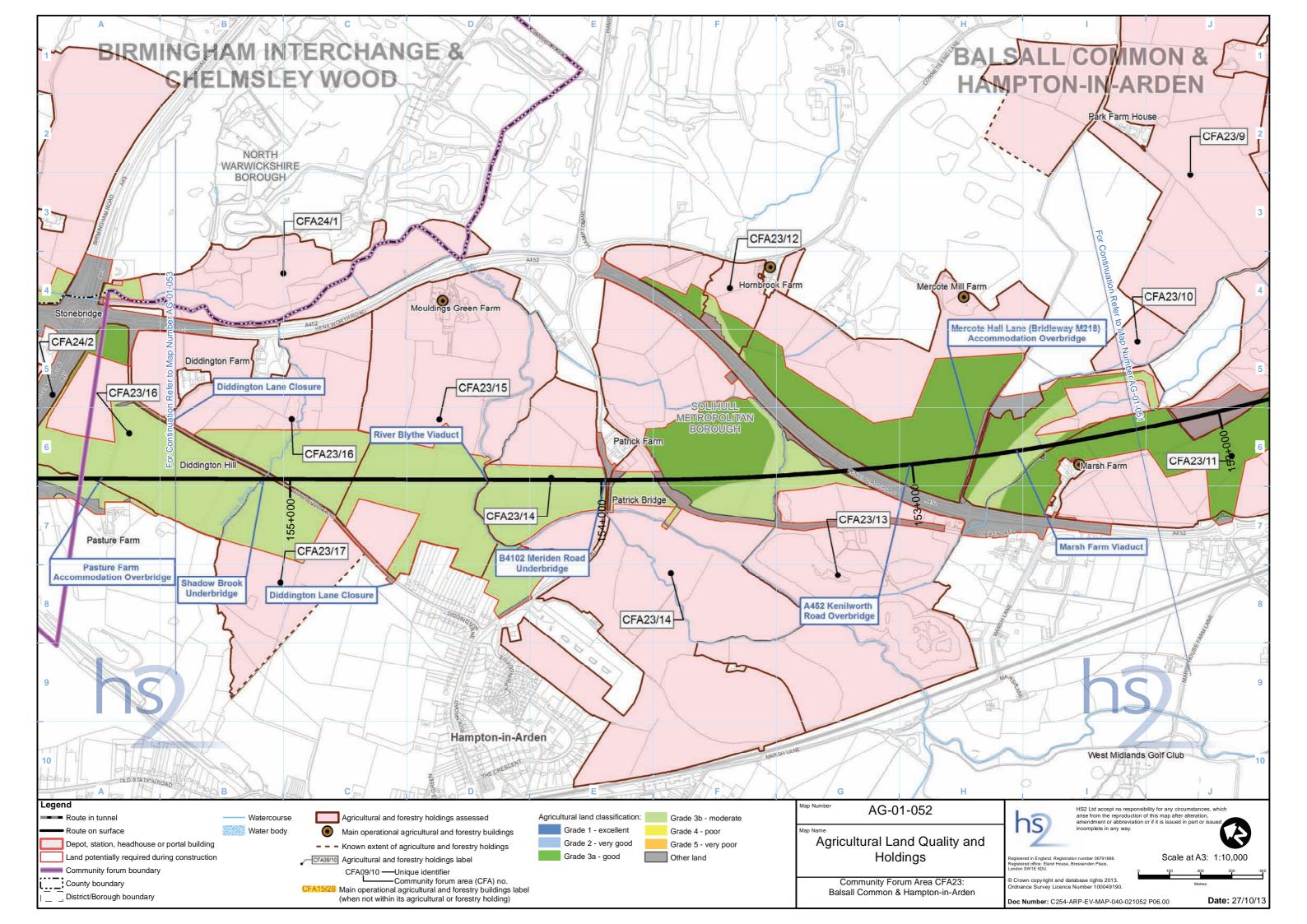
CFA23 Balsall Common and Hampton-in-Arden

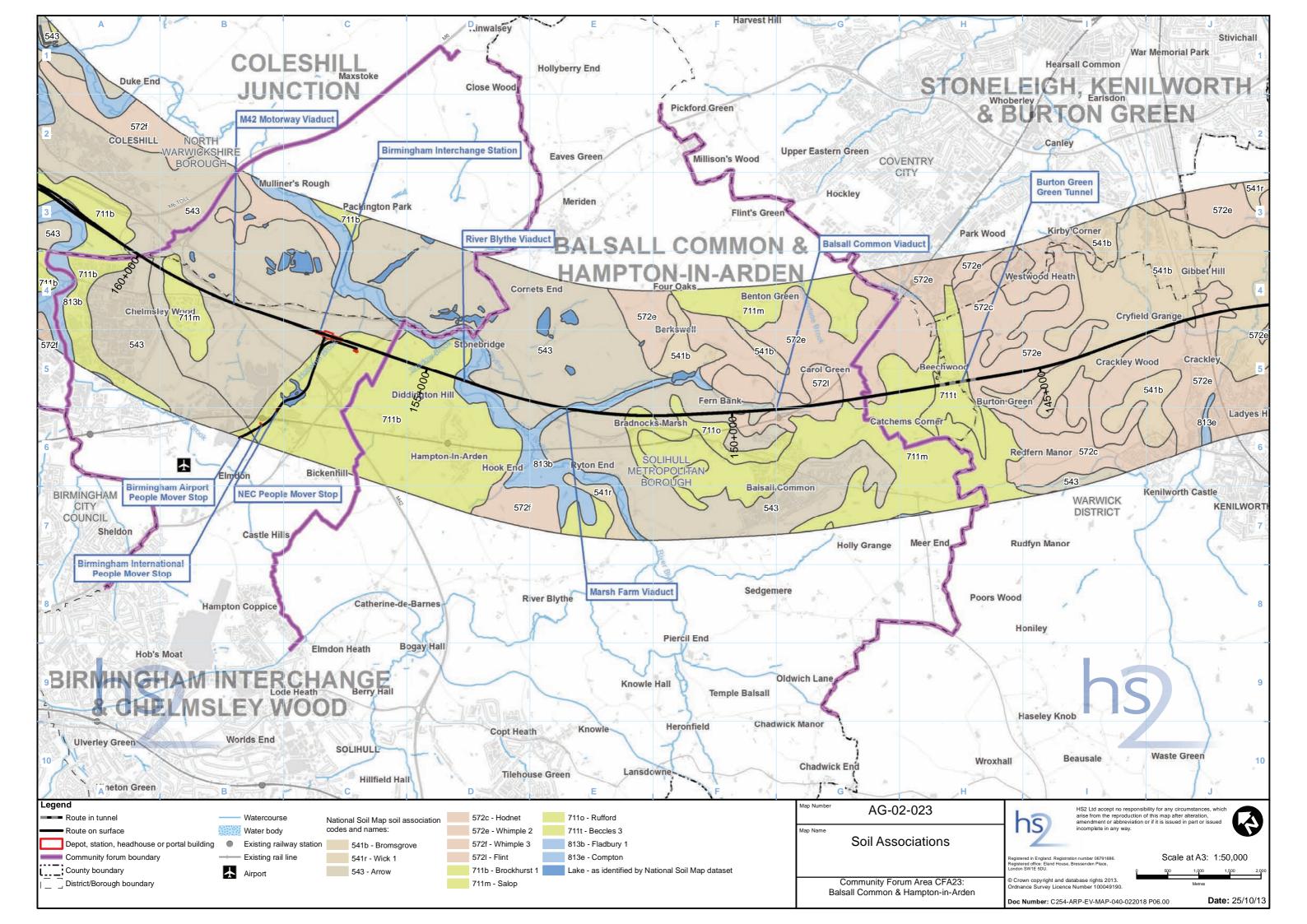
AG-01 - Agricultural Land Quality and Holdings











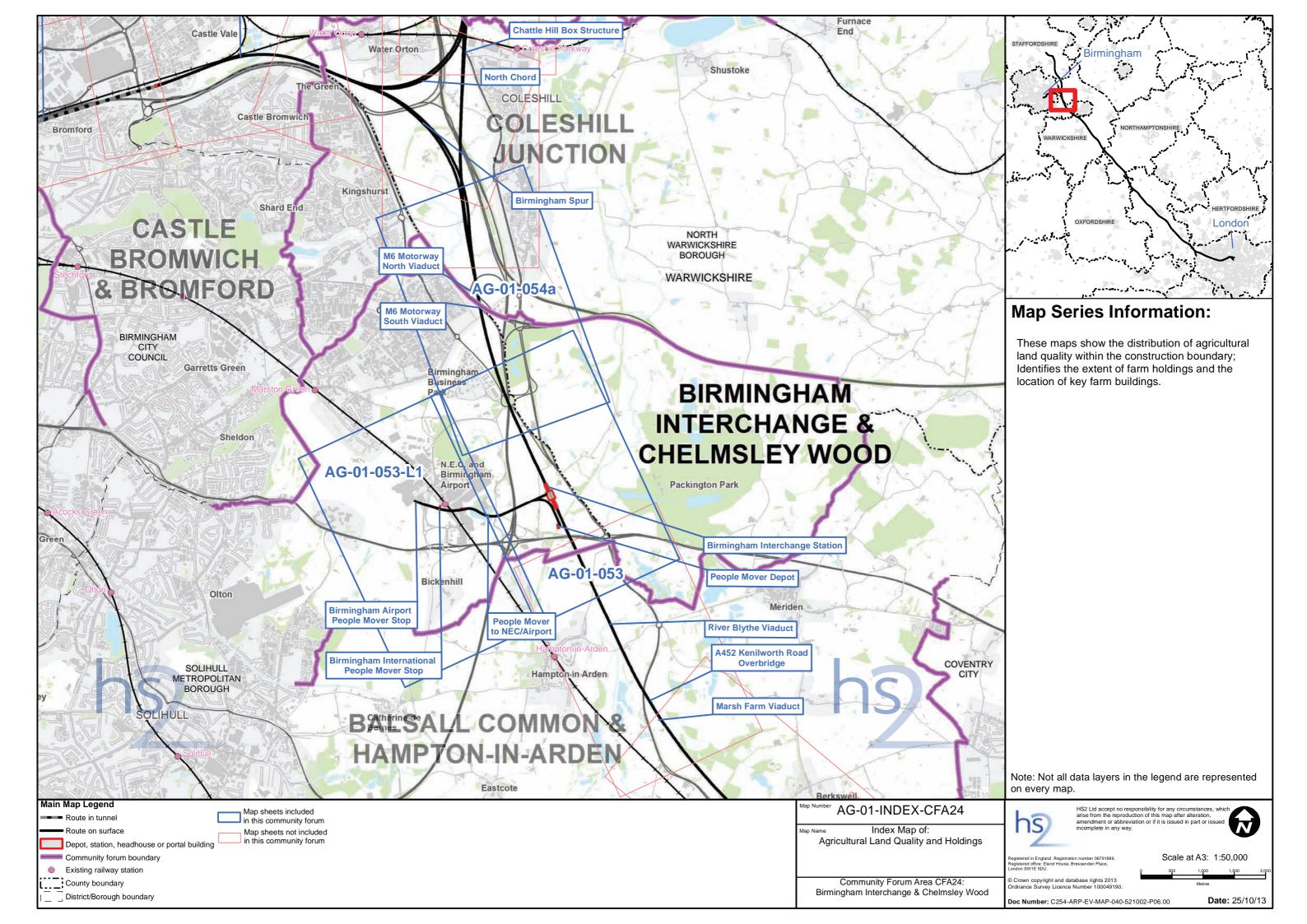


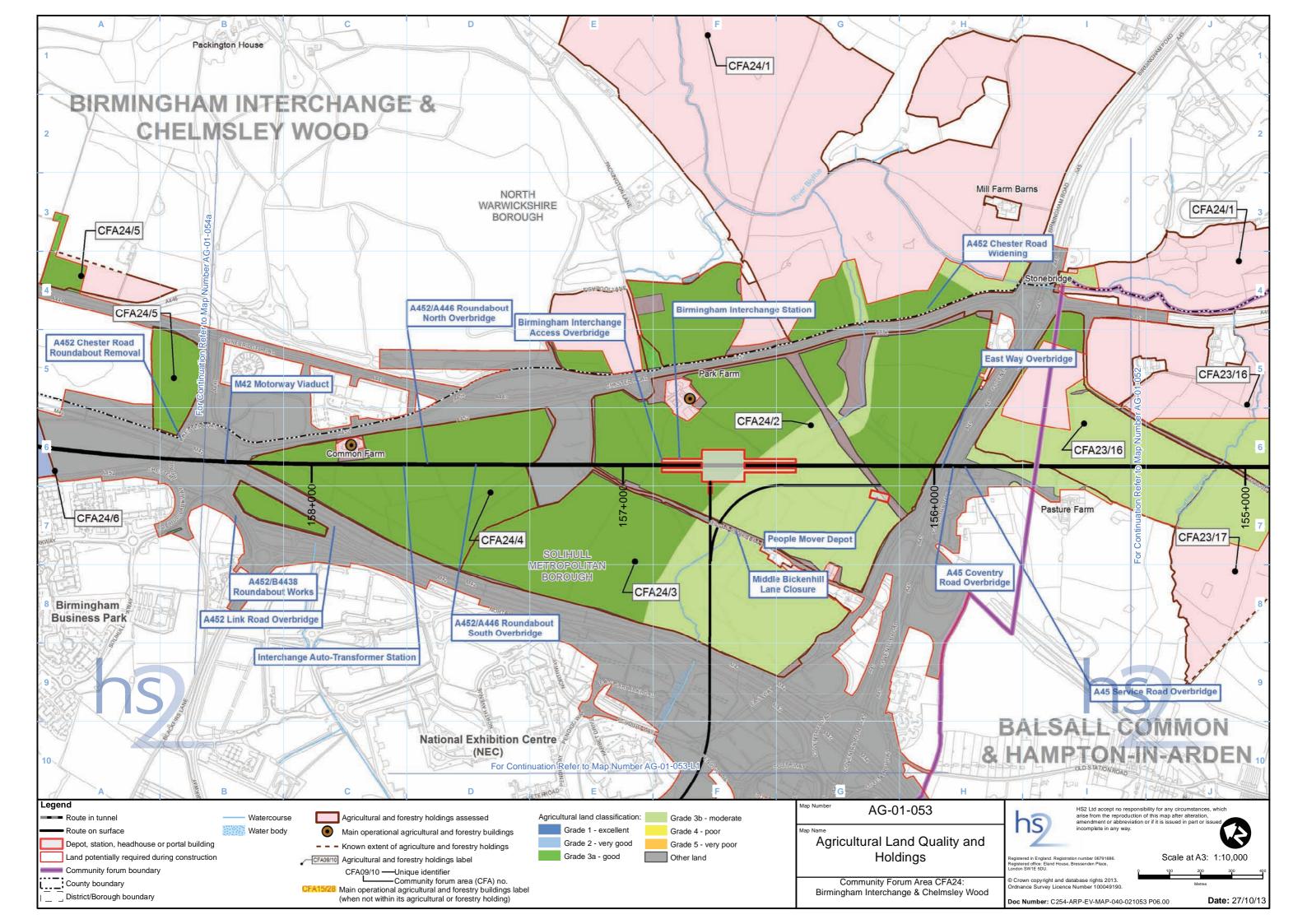
## LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

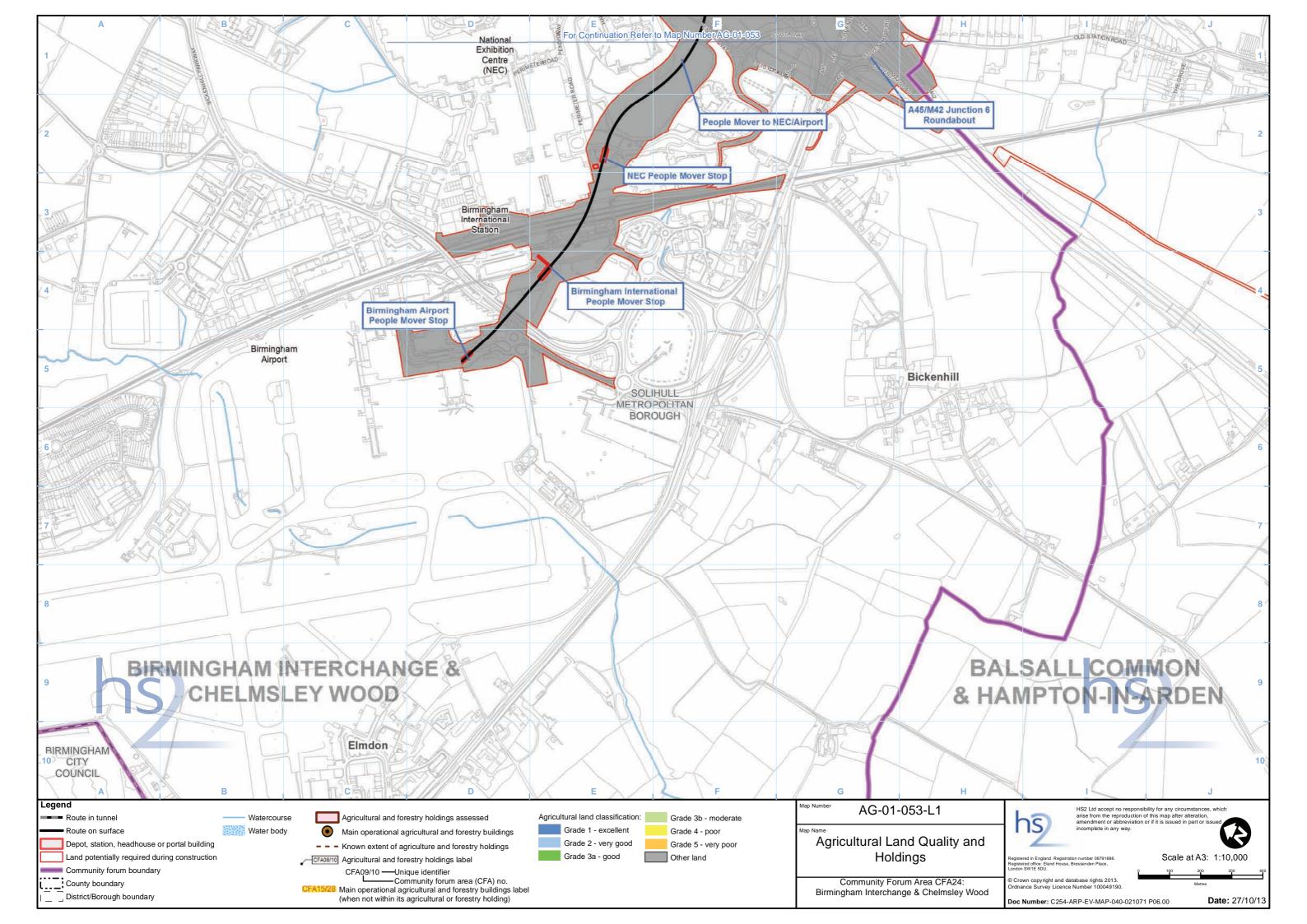
CFA24 | Birmingham Interchange and Chelmsley Wood

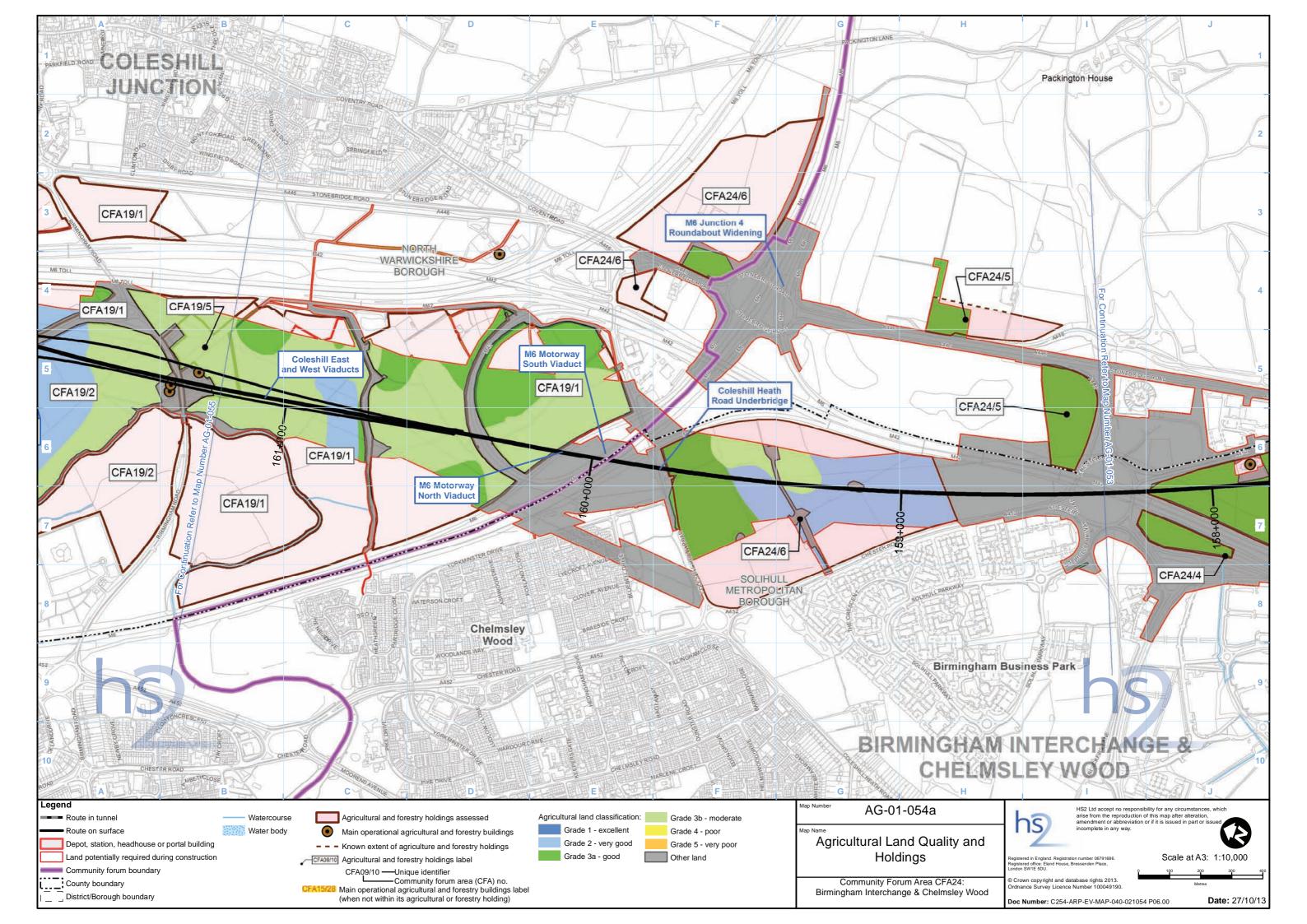
AG-01 - Agricultural Land Quality and Holdings

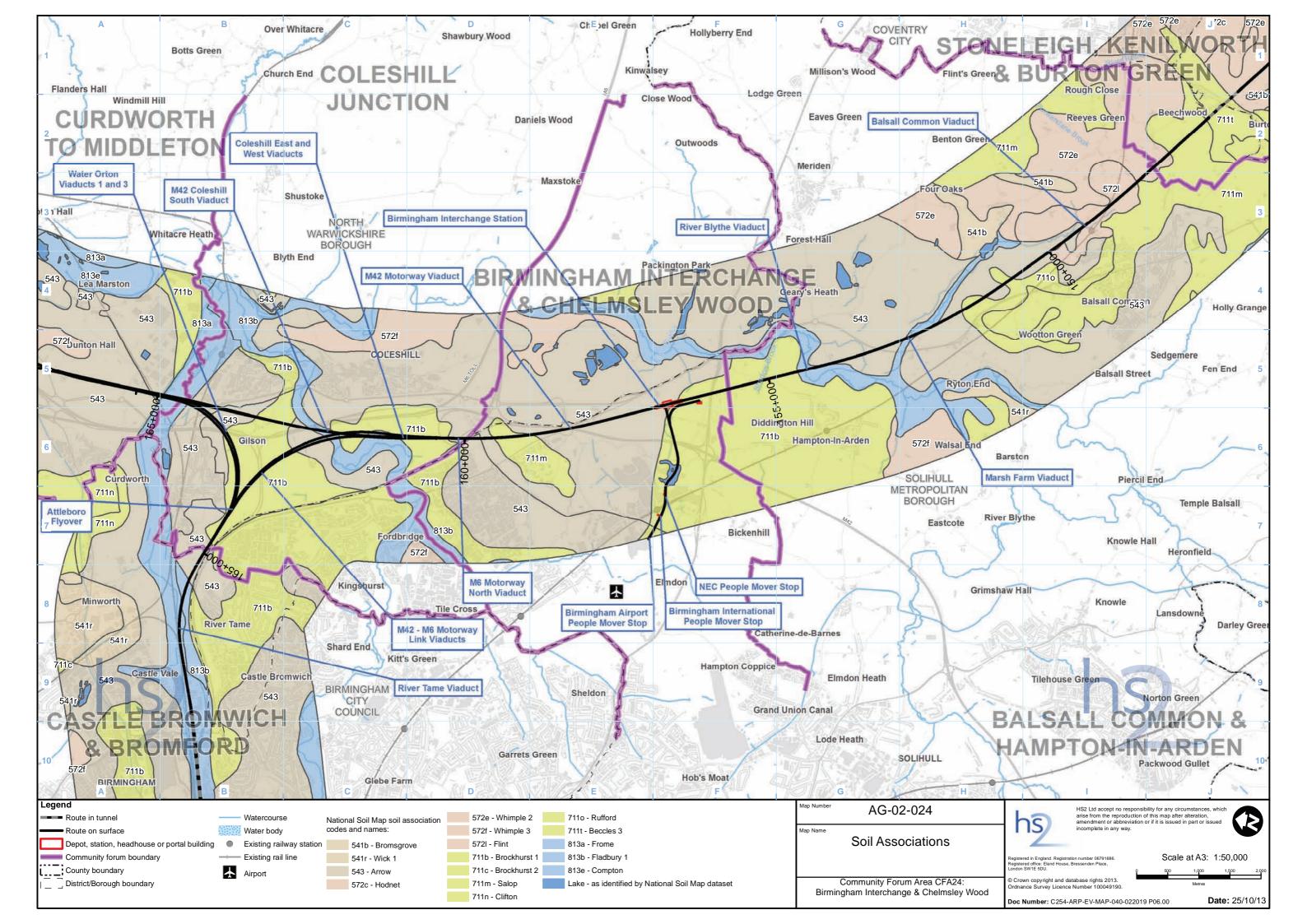
AG-02 - Soil Associations











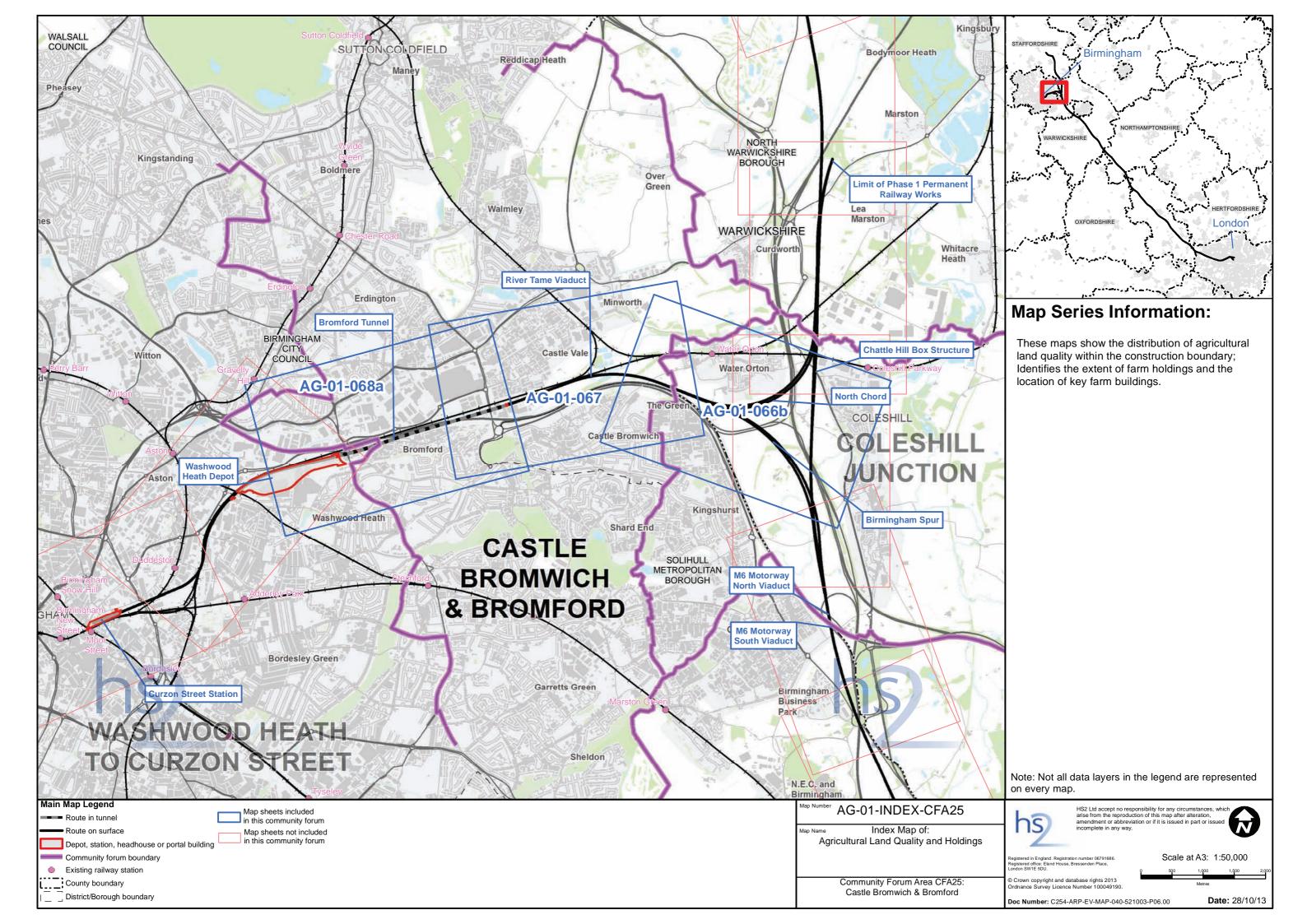


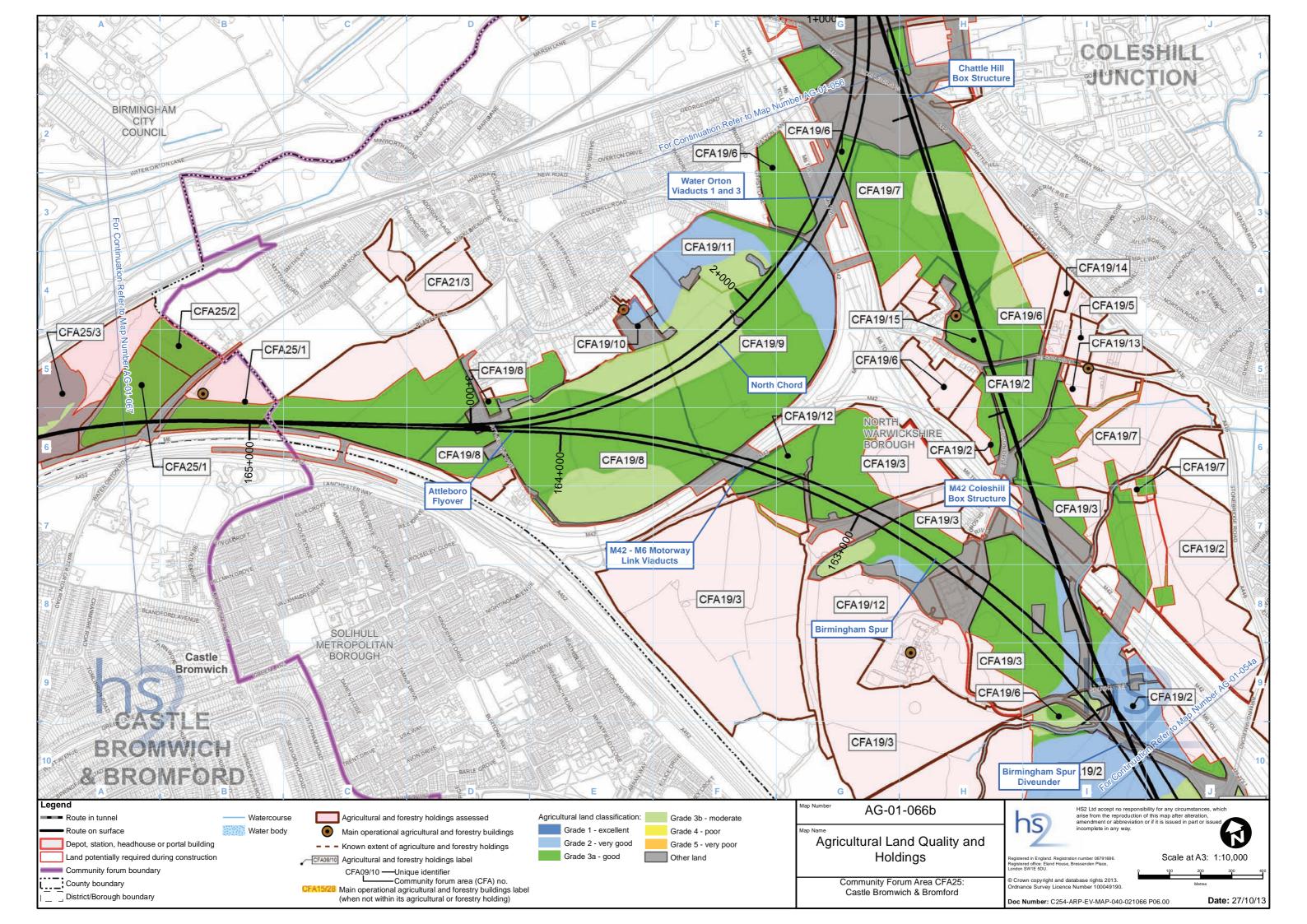
## LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

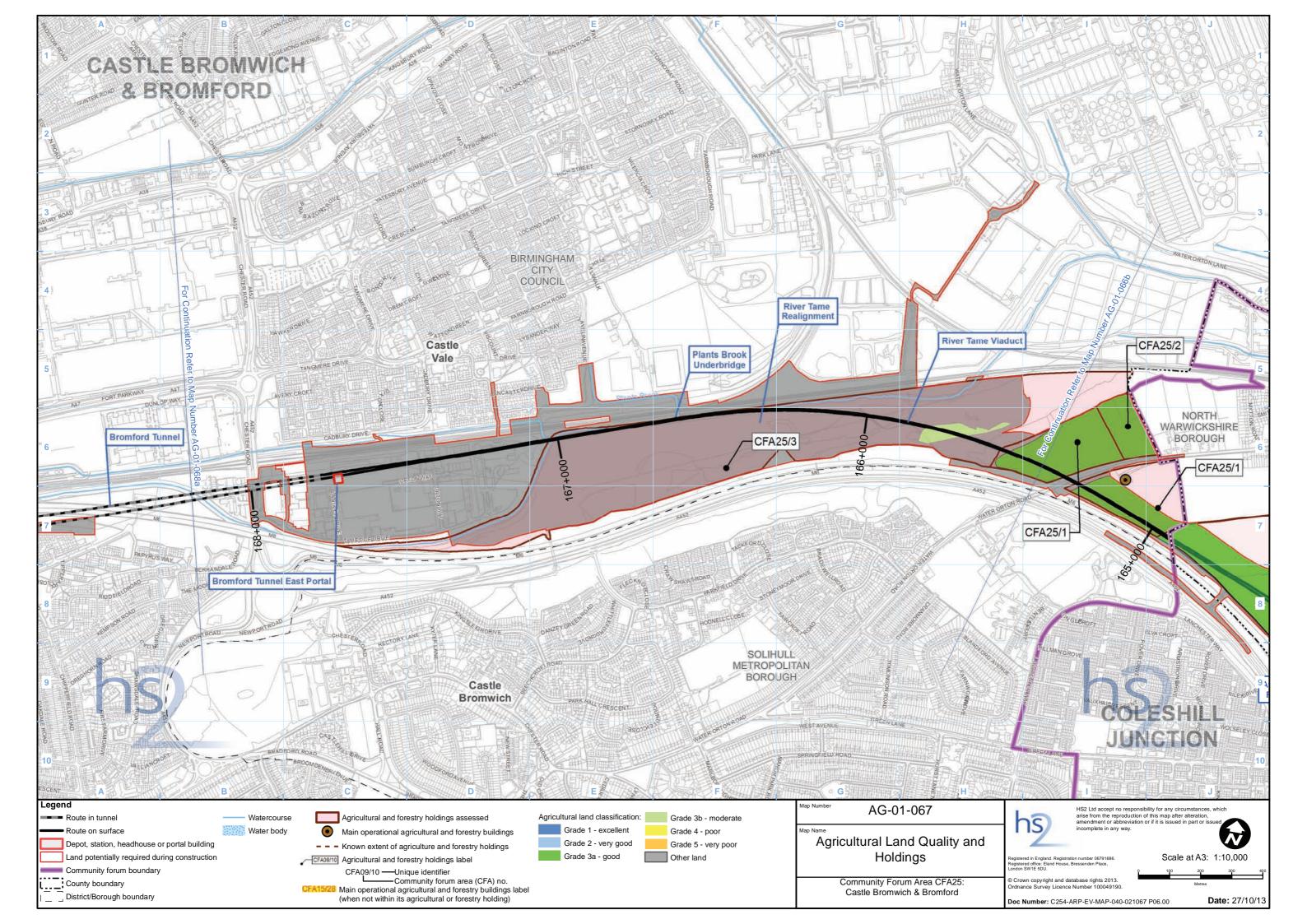
CFA25 | Castle Bromwich and Bromford

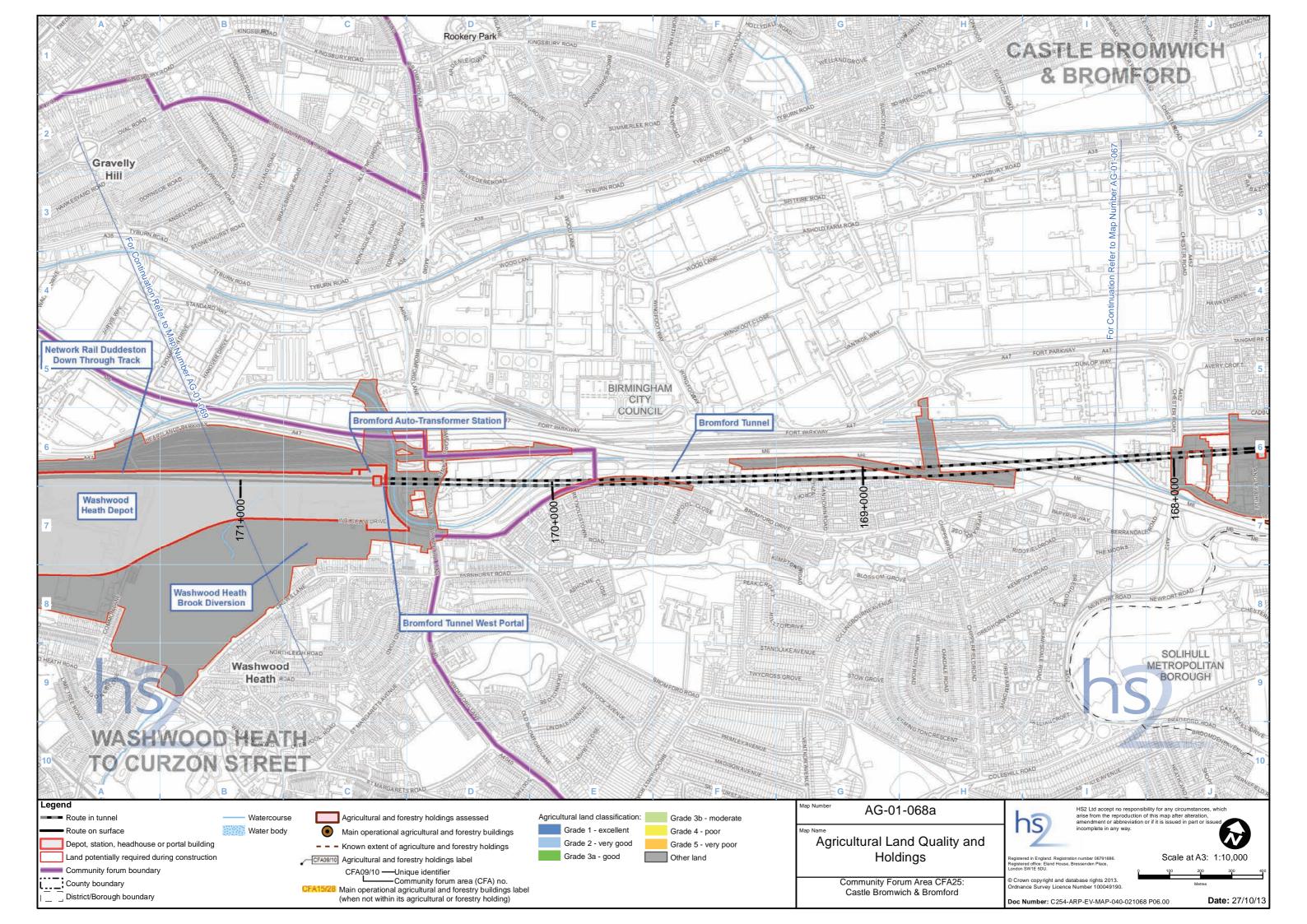
AG-01 - Agricultural Land Quality and Holdings

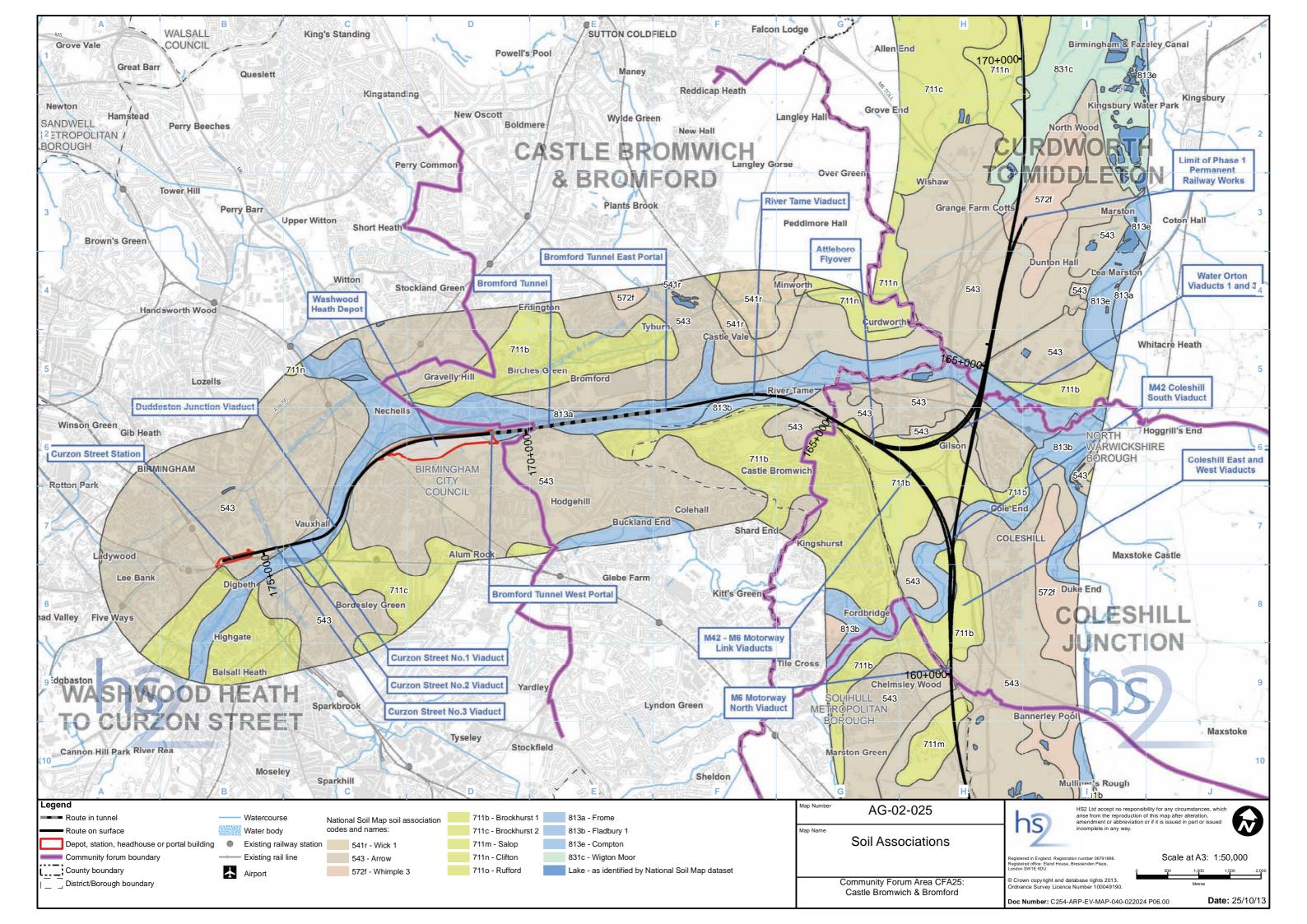
AG-02 - Soil Associations













## LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

CFA26 | Washwood Heath to Curzon Street AG-02 - Soil Associations

